

three inches = one foot

one and one half inches = one foot

one inch = one foot

three quarters inch = one foot

one half inch = one foot

three eighths inch = one foot

one quarter inch = one foot

one eighth inch = one foot

CONTINUED FROM SB-001

36. FORMWORK FOR SLABS AND BEAMS SHALL BE CAMBERED TO COMPENSATE FOR DEFLECTIONS OF SHORING/FORMWORK SYSTEM DUE TO CONSTRUCTION LOADS. THIS CAMBER SHALL BE IN ADDITION TO THAT SHOWN ON THE CONTRACT DRAWINGS, IF ANY.
37. FORMWORK DESIGN FOR POST-TENSIONED STRUCTURES SHALL INCLUDE THE EFFECT OF STRESSING SEQUENCE UPON FORMWORK FRAMING, AND MUST BE COORDINATED WITH POST-TENSIONING SYSTEM MANUFACTURER.
38. THE CONTRACTOR SHALL INCLUDE INTO THE BASE BID CONTRACT THE COST FOR SUPPLYING AND INSTALLING 1,600 LBS (800 LBS EPOXY COATED) ADDED REINFORCING BARS AS DIRECTED BY THE ARCHITECT. THE OWNER SHALL BE COMPENSATED FOR PROVISIONS NOT USED.
39. THE CONTRACTOR SHALL INCLUDE INTO THE BASE BID CONTRACT THE COST FOR ROUTING AND SEALING 500 LINEAL FEET OF CONCRETE CRACKS AS DIRECTED BY THE ARCHITECT. THE OWNER SHALL BE COMPENSATED FOR THE UNUSED SEALED CRACK LENGTH.
40. NOT USED.
41. PROVIDE EPOXY COATED REINFORCEMENT IN THE STRUCTURE AS FOLLOWS:

A. IN THE PARKING STRUCTURE ONLY, ALL REINFORCEMENT AND WELDED WIRE FABRIC IN THE UPPER 3-INCH OF THE CAST-IN-PLACE ELEVATED STRUCTURAL SLAB, CURBS AND TOPPING SLABS.

B. RETAINING WALL AND FOUNDATION WALL REINFORCEMENT LOCATED AT 2" OR LESS FROM A FACE OF CONCRETE SUBJECT TO DE-ICING CHEMICALS "SPASH-ON".

C. TOP REINFORCING BARS AND STIRRUPS FOR ELEVATED BEAMS AND GIRDERS.

D. ALL REINFORCEMENT FOR ELEVATED UPTURNED BEAMS.

E. ALL REINFORCEMENT OF PARAPET WALLS OR "CRASH" WALLS.

F. ALL REINFORCING BARS IN THE EXTERIOR FACE OF PARKING STRUCTURE STAIR/ELEVATOR TOWER CAST-IN-PLACE WALLS EXTENDING ABOVE GRADE OR ABOVE TOP OF SLAB-ON-GRADE.

G. ALL REINFORCING BARS AT CAST-IN-PLACE CLOSURE STRIPS OR INFILL SLABS.

H. ALL REINFORCING BARS AT POST-TENSIONING ANCHORAGE ZONE PER DETAIL SF-501.

I. ALL REINFORCING BARS AT STRESSING POCKETS, IF ANY.

J. ALL SUPPORT STEEL FOR EPOXY COATED REINFORCEMENT.
42. THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS SHOWING THE LOCATIONS OF ALL CONSTRUCTION JOINTS, REVEALS, CURBS, SLAB DEPRESSIONS, SLEEVES, OPENINGS, ETC.
43. SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING AND PLACEMENT SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
44. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
45. SEE SHEET SF-001 FOR ADDITIONAL REQUIREMENTS AND RELATED WORK.

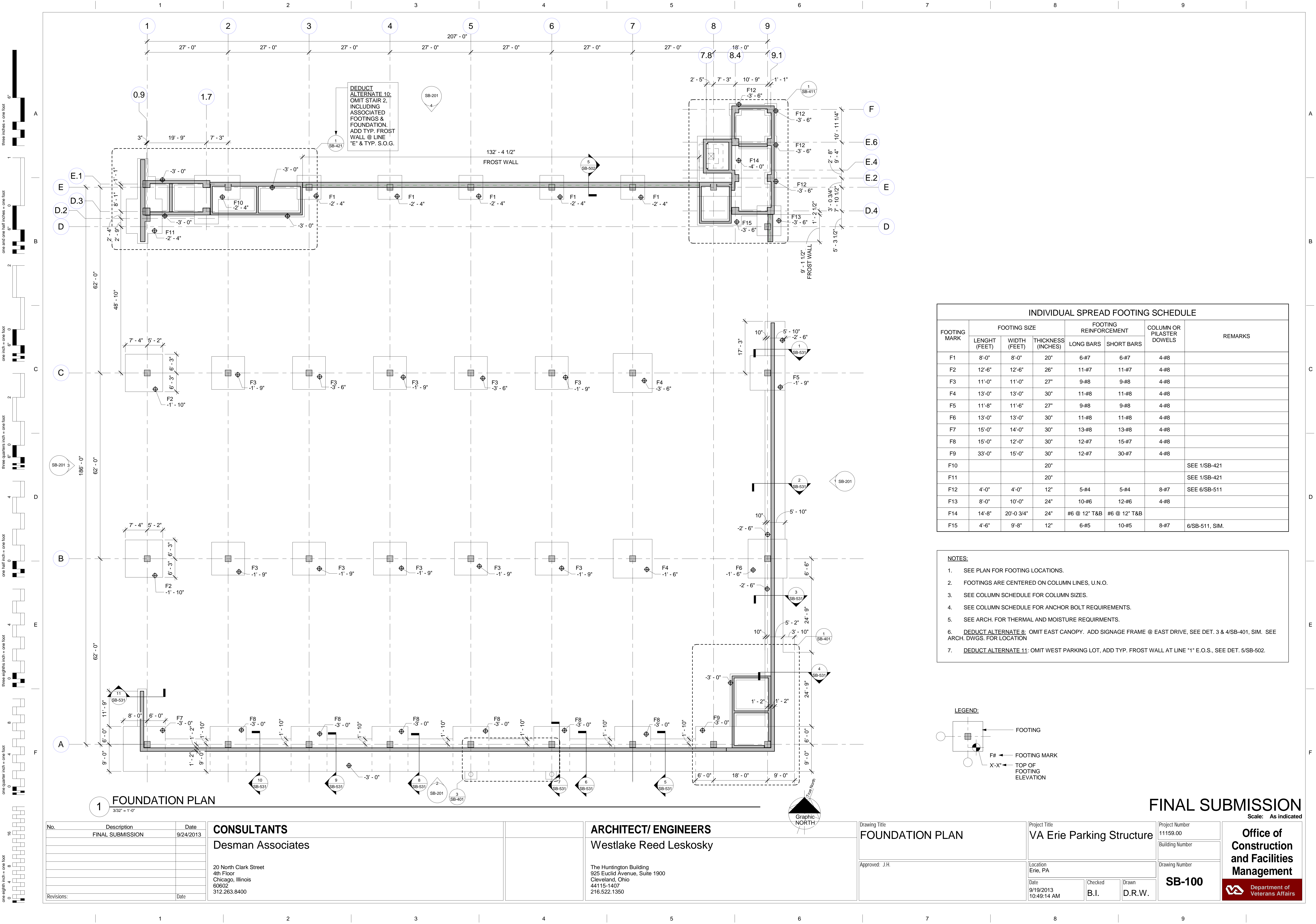
ABBREVIATIONS

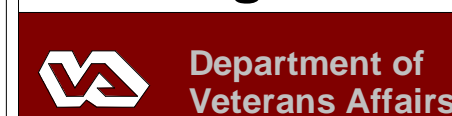
ACI	AMERICAN CONCRETE	O.C.	ON CENTER
AISC	INSTIUTE	O.D.	OUTSIDE DIAMETER
	AMERICAN INSTITUTE OF	O.F.	OUTSIDE FACE
	STEEL CONSTRUCTION	O.H.	OPPOSITE HAND
ADDL	ADDITIONAL	OPN.	OPENING
ADJ.	ADJACENT	OPP.	OPPOSITE
AESS	ARCHITECTURALLY EXPOSED		
	STRUCTURAL STEEL	PAR.	PARALLEL
AGG.	AGGREGATE	PART.	PARTITION
ALT.	ALTERNATE	P.C.C.	PRE-CAST CONCRETE
APPROX.	APPROXIMATELY	P.C.F.	POUNDS PER CUBIC FOOT
ARCH.	ARCHITECT	P.C.I.	POUNDS PER CUBIC INCH
		PERP.	PERPENDICULAR
		PL	PLATE
B. TO B.	BACK TO BACK	P.S.F.	POUNDS PER SQUARE FOOT
BEV.	BEVEL	P.S.I.	POUNDS PER SQUARE INCH
B.F.	BACK FACE	PT.	POINT
B.L.	BUILDING LINE		
BLDG.	BUILDING		
B/ OR BOT.	BOTTOM	RAD.	RADIUS
BRDG.	BRIDGING	REINF.	REINFORCEMENT
BTWN	BETWEEN	REQ.	REQUIRE
BRG	BEARING	REQ'D	REQUIRED
C	CHANNEL	SCHED.	SCHEDULE
C.G.	CENTER OF GRAVITY	SECT.	SECTION
C.I.P.	CAST IN PLACE	S.F.	SQUARE FOOT (FEET)
C.J.	CONSTRUCTION JOINT OR	SHT.	SHEET
	CONTROL JOINT	SIM.	SIMILAR
CL	CENTERLINE	SPEC.	SPECIFICATION
CLR.	CLEAR	SPEC'D	SPECIFIED
C.M.U.	CONCRETE MASONRY UNIT	STL.	STEEL
COL.	COLUMN	STD.	STANDARD
COMP.	COMPRESSION	STIFF.	STIFFENER
CONC.	CONCRETE	STIR.	STIRRUP
CONN.	CONNECTION	STRUCT.	STRUCTURE
CONST.	CONSTRUCTION		
CONT.	CONTINUOUS	SUB-CONT.	SUB-CONTRACTOR
COV. PL.	COVER PLATE	SUPT.	SUPPORT
		SYM.	SYMMETRICAL
DBL	DOUBLE	T/	TOP
DET.	DETAIL	T&B	TOP AND BOTTOM
DIAG.	DIAGONAL	TEMP.	TEMPERATURE
DIAM.	DIAMETER	TEN.	TENSION
DIM.	DIMENSION	THK.	THICK
D.L.	DEAD LOAD	TYP.	TYPICAL
D.P.	DRILLED PIER		
DWG.	DRAWING		
DWLS.	DOWELS	U.N.	UNLESS NOTED
		U.N.O.	UNLESS NOTED OTHERWISE
EA.	EACH	V	SHEAR
E.F.	EACH FACE	VERT.	VERTICAL
E.J.	EXPANSION JOINT		
EL.	ELEVATION		
ELEC.	ELECTRICAL	W/	WITH
ELEV.	ELEVATOR	W/O	WITHOUT
		WF	WIDE FLANGE
F. TO F.	FACE TO FACE	W xxxx	WIDE FLANGE SECTION
FABR.	FABRICATOR	W.L.	WIND LOAD
FIN.	FINISH	W.P.	WORK POINT
FIN. FL.	FINISHED FLOOR	WPRF.	WATER PROOFING
FL	FLOOR	W.S.	WATER STOP
FNDN.	FOUNDATION	W.W.F.	WELDED WIRE FABRIC
FP	FIRE PROTECTION		
F.S.	FAR SIDE		
FT.	FOOT OR FEET		
FTG.	FOOTING		
GA.	GAUGE		
GALV.	GALVENIZED		
G.C.	GENERAL CONTRACTOR		
GR.	GRADE		
GR. BM.	GRADE BEAM		
G.S.	GALVENIZED STEEL		
H.B.	HOOKED BAR		
HK.	HOOK		
HORIZ.	HORIZONTAL		
H.P.	HIGH POINT		
H.S.	HEADED STUD		
H.S.B.	HIGH STRENGHT BOLT		
H.S.S	HOLLOW STRUCTURAL		
	SECTION		
HGT.	HEIGHT		
I.D.	INSIDE DIAMETER		
I.F.	INSIDE FACE		
INFO.	INFORMATION		
INT.	INTERIOR		
INTERM.	INTERMEDIATE		
JST.	JOIST		
JT.	JOINT		
K.	KIPS		
K.L.F.	KIPS PER LINEAL FOOT		
K.S.F	KIPS PER SQUARE FOOT		
L	ANGLE		
LB.	POUND		
L.L.	LIVE LOAD		
L.L.H.	LONG LEG HORIZONTAL		
L.L.V.	LONG LEG VERTICAL		
LONG.	LONGITUDINAL		
L.P.	LOW POINT		
LTWT.	LIGHT WEIGHT		
M.	MOVEMENT		
MAT.	MATERIAL		
MAX.	MAXIMUM		
M.C.	MOVEMENT CONNECTION		
MECH.	MECHANICAL		
MEZZ.	MEZZANINE		
MDL.	MIDDLE		
MIN.	MINIMUM		
MISC.	MISCELLANEOUS		
MFR.	MANUFACTURER		
MTL.	METAL		
N.I.C.	NOT IN CONTRACT		
NO. OR #	NUMBER		
NOM.	NOMIAL		
N.S.	NEAR SIDE		
N.T.S.	NOT TO SCALE		

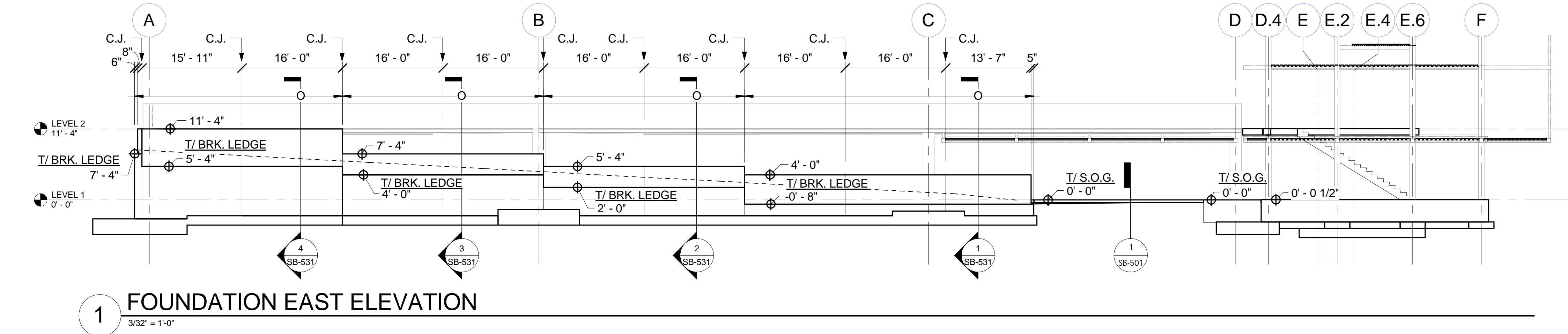
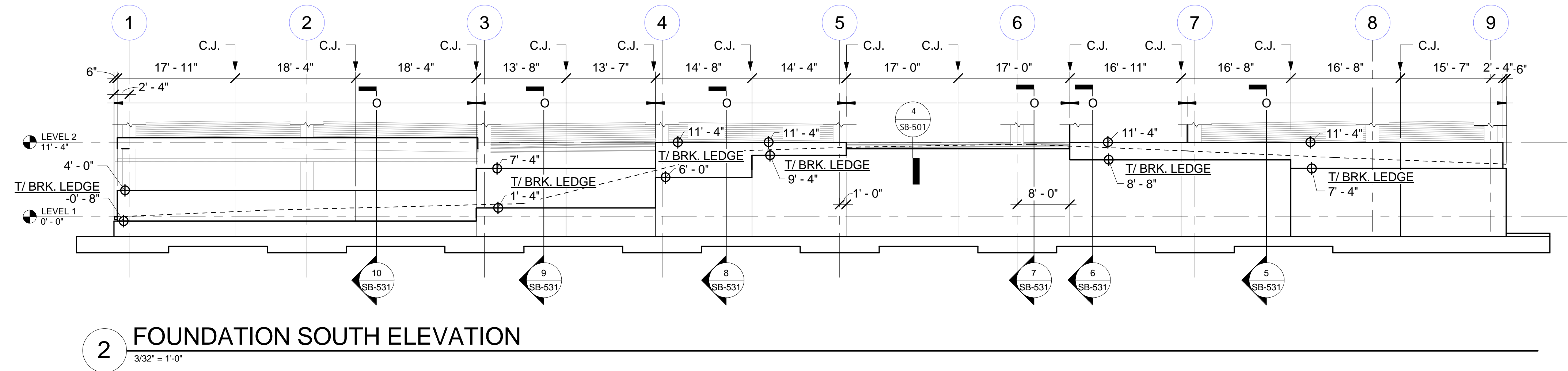
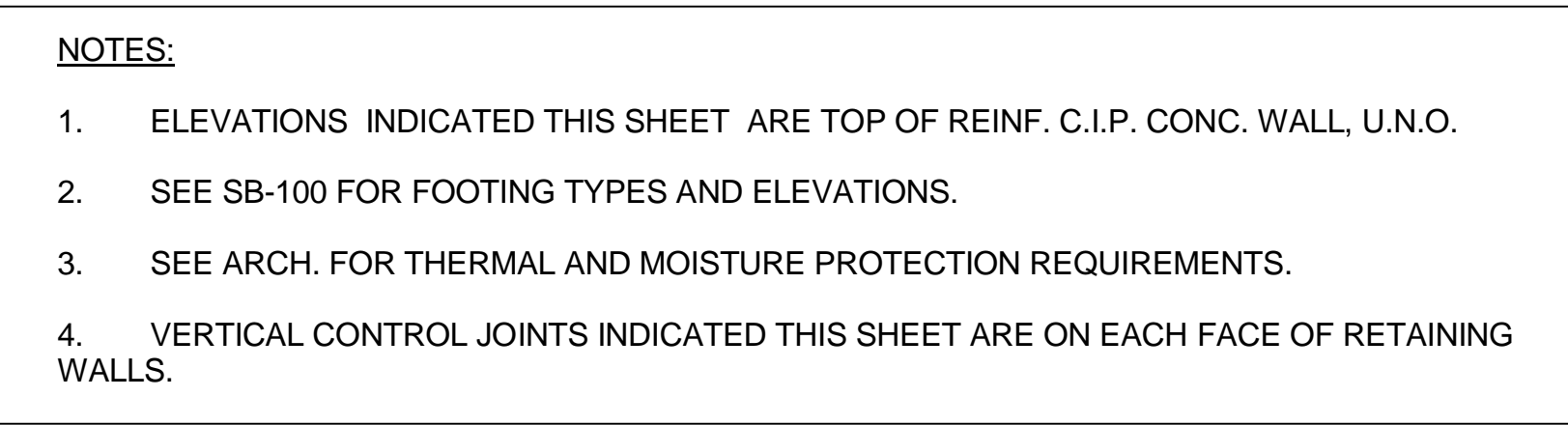
FINAL SUBMISSION


Scale: 3/4" = 1'-0"

No.	Description	Date	CONSULTANTS	ARCHITECT/ ENGINEERS	Drawing Title	Project Title	Project Number	Office of Construction and Facilities Management	
	FINAL SUBMISSION	9/24/2013	Desman Associates	Westlake Reed Leskosky	STRUCTURAL GENERAL NOTES - 2	VA Erie Parking Structure	11159.00		
					Approved: J.H.	Location Erie, PA	Building Number	SB-002	
Revisions:		Date	20 North Clark Street 4th Floor Chicago, Illinois 60602 312.263.8400	The Huntington Building 925 Euclid Avenue, Suite 1900 Cleveland, Ohio 44115-1407 216.522.1350	Date 9/19/2013 10:49:13 AM	Checked B.I.	Drawn D.R.W.	Department of Veterans Affairs	







No.	Description	Date	CONSULTANTS Desman Associates 20 North Clark Street 4th Floor Chicago, Illinois 60602 312.263.8400		ARCHITECT/ ENGINEERS Westlake Reed Leskosky The Huntington Building 925 Euclid Avenue, Suite 1900 Cleveland, Ohio 44115-1407 216.522.1350	Drawing Title FOUNDATION ELEVATIONS Approved: J.H.	Project Title VA Erie Parking Structure Location Erie, PA <table><tr><td>Date 9/19/2013 10:49:16 AM</td><td>Checked J.H.</td><td>Drawn D.R.W.</td></tr></table>	Date 9/19/2013 10:49:16 AM	Checked J.H.	Drawn D.R.W.	Project Number 11159.00	Office of Construction and Facilities Management  Department of Veterans Affairs
Date 9/19/2013 10:49:16 AM	Checked J.H.	Drawn D.R.W.										
	FINAL SUBMISSION	9/24/2013						Building Number	Drawing Number SB-201			
Revisions:		Date										

1 IT AND STORAGE ROOMS FOUNDATION PLAN

IT AND STORAGE ROOMS LEVEL 1
SLAB-ON-GRADE PLAN

2 1/4" = 1'-0"

Graphic NORTH

5 IT ROOM FOUNDATION SECTION

6 STORAGE ROOM FOUNDATION SECTION

STRONG PIPE

FINISHED GRADE
SEE ARCH. &
CIVIL DWGS.

LEVEL 2
11'-4"

1/4"

BASE PL. 1" THICK X
13" DIA. BASE PL. W/
(4) - 3/4" DIA. X 3'-0"
LONG ANCHOR RODS

18" DIA. W/ (6) - #6
VERT. & #4 TIES @
8" O.C.

(5) - #4 BOT. EA. WAY

4'-0" X 4'-0"

3'-0"

1'-0"

SEE ARCH. &
CIVIL DWGS.

6"

4

**SOUTH ENTRY SIGNAGE FRAME
FOUNDATION SECTION**

1" = 1'-0"

No.	Description	Date
	FINAL SUBMISSION	9/24/2013
Revisions:		Date

CONSULTANTS
Desman Associates
20 North Clark Street 4th Floor Chicago, Illinois 60602 312.263.8400

ARCHITECT/ ENGINEERS

Westlake Reed Leskosky

Drawing Title

**IT AND STORAGE ROOMS
FNDN. ENLARGED VIEWS**

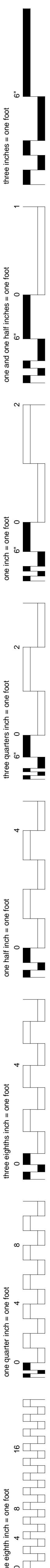
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Project Title		
VA Erie Parking Structure		
Location Erie, PA		
Date 9/19/2013 10:49:17 AM	Checked B.I.	Drawn D.R.W.

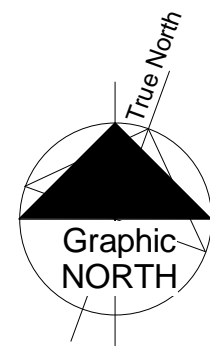
Project Number 11159.00
Building Number
Drawing Number SB-401

**Office of
Construction
and Facilities
Management**

 Department of
Veterans Affairs

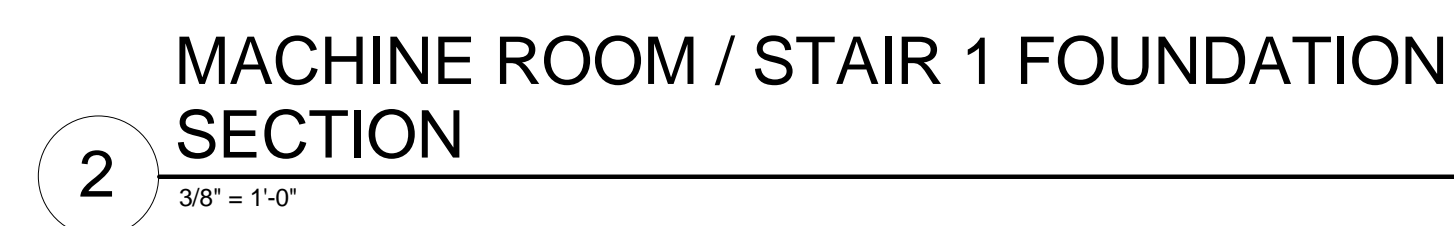


Graphic
NORTH



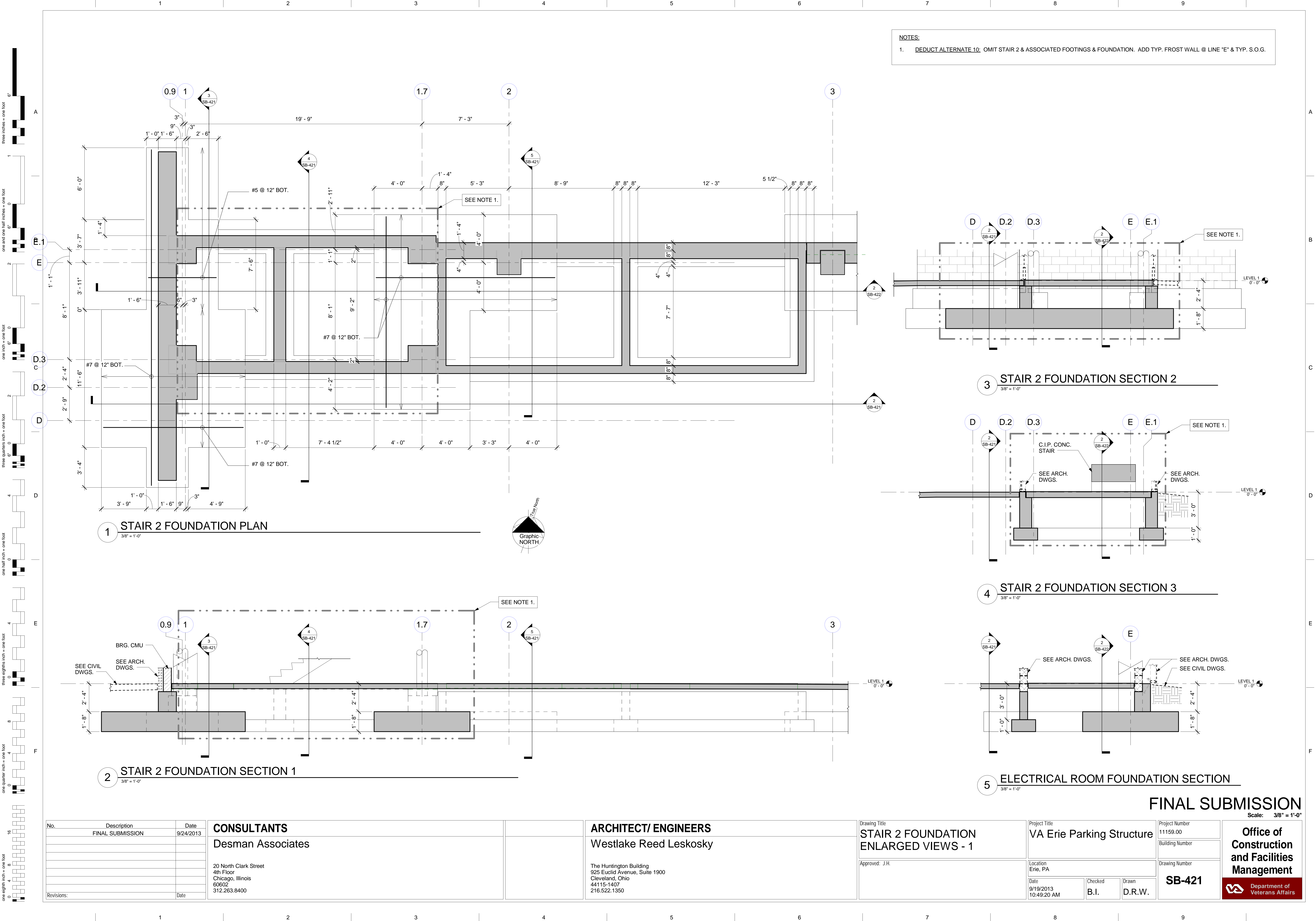
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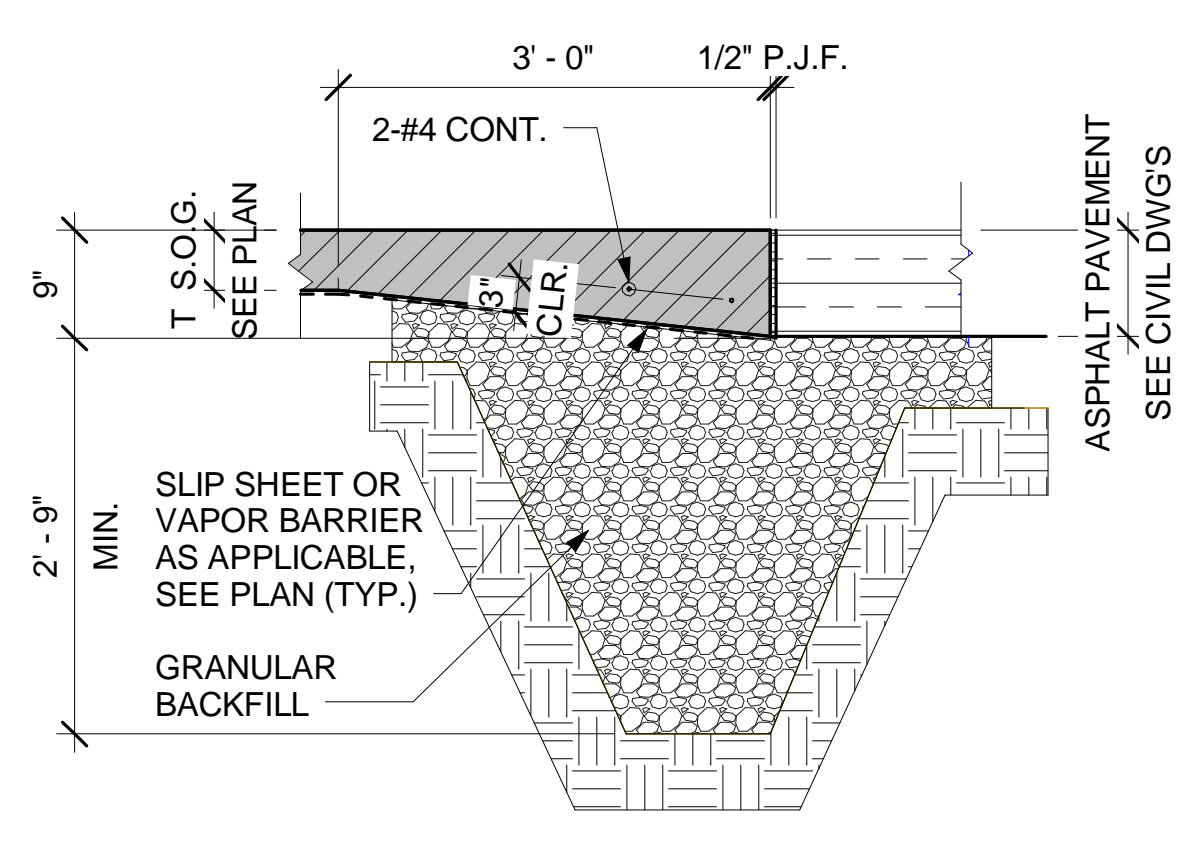
 Department of
Veterans Affairs



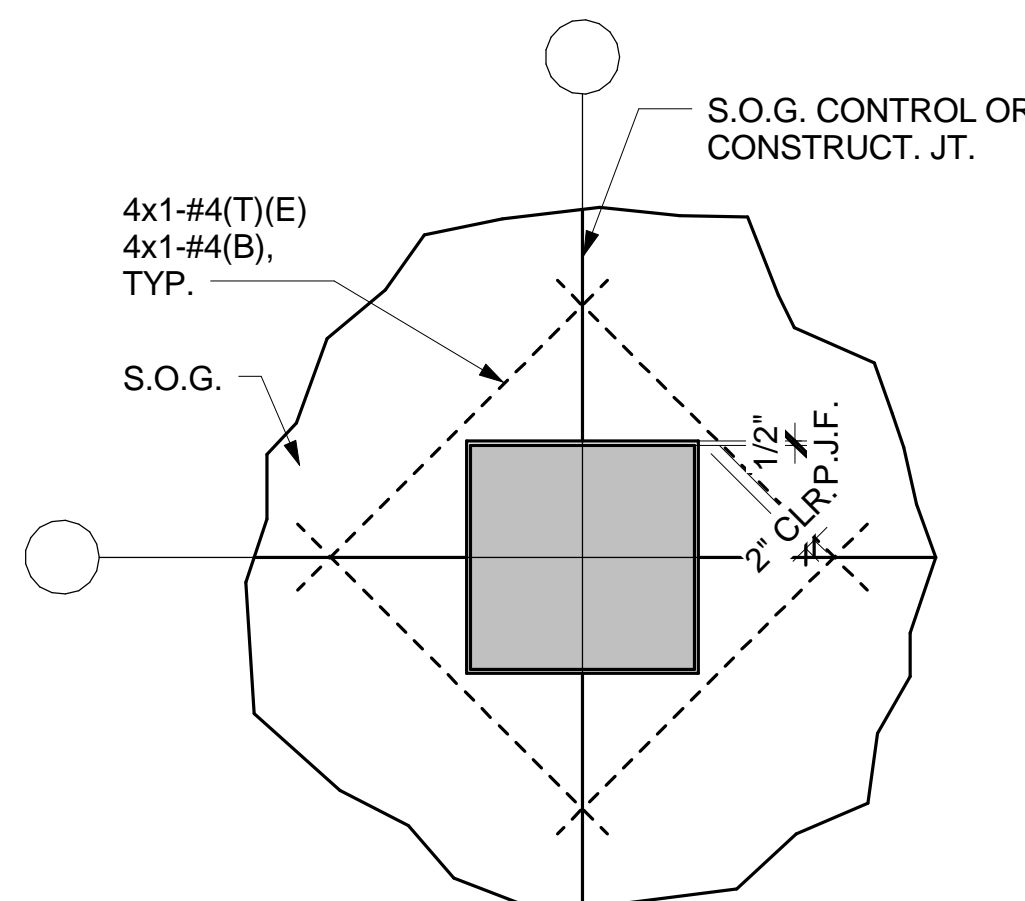
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Department of
Veterans Affairs

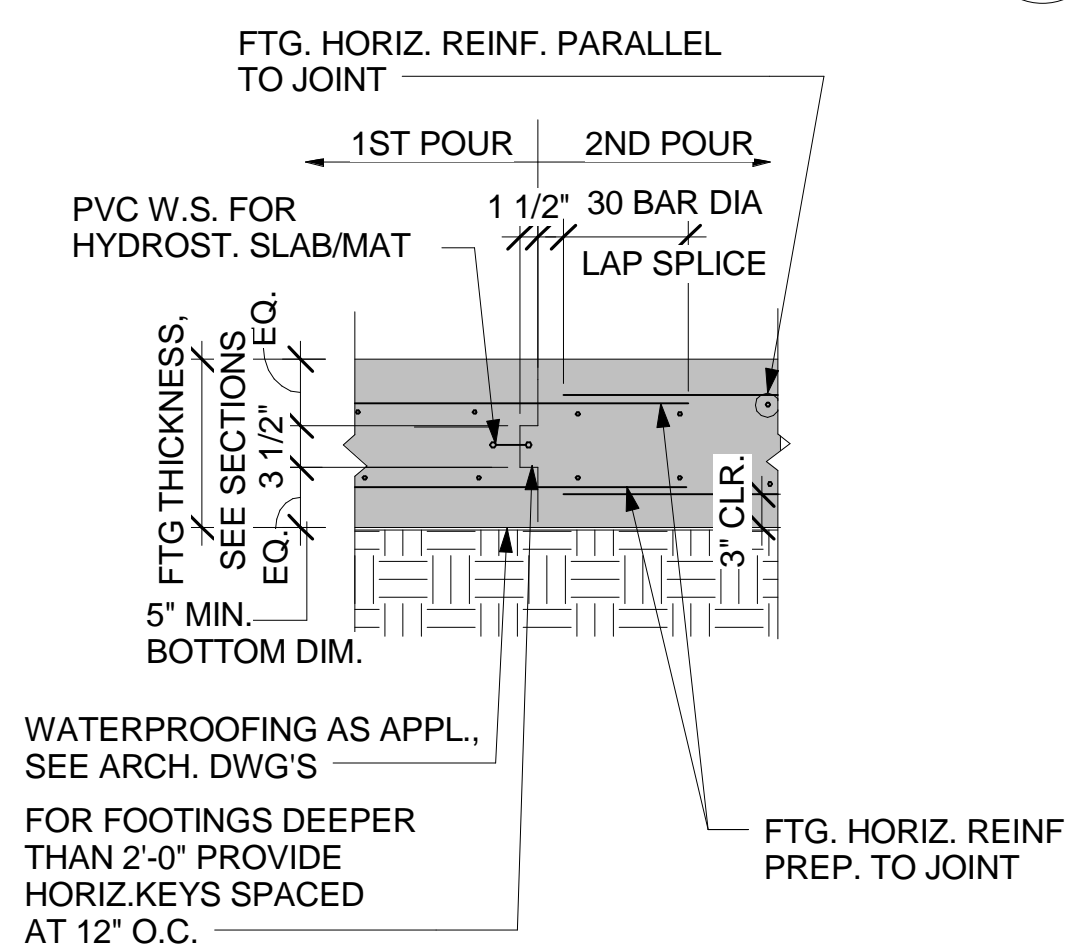




2 SLAB-ON-GRADE/ASPHALT
PAVEMENT INTERFACE DETAIL
N.T.S.



6 TYPICAL INTERIOR COLUMN ISOLATION
JOINT DETAIL AT S.O.G.
N.T.S.



40db

40db

2-#5 INNERMOST LAYER

30°

2'-0" MIN.

1'-0" MIN.

2'-6" MAX.

EXTEND HORIZ. WALL REINF.

FTG.

1'-0" MIN.

1'-0"

2' MAX.

1

[illegible]

#4@12"

DOWELS WRAPPED IN MIN. 1/2" THICK CLOSED CELL POLYETHYLENE

SEE PLANS & SCHED'S

SLAB-ON-GRADE THICKNESS, T

SEE ARCH DWGS

#4@12"x4'-6"

SEE ARCH DWGS

1'-0"

1'-6"

Tsl

BOND BREAKER

STIRRER SLAB THICKNESS SEE PLANS FOR DIM INFO. AND STIRRER FOR DET'S ON THIS DWG.

SLIP SHEET OR VAPOR BARRIER AS APPLICABLE, SEE PLAN (TYP.)

3'-0"

1'-2"

3'-0"

3-#4@12"

NOTES:
1. PROVIDE CONTINUOUS SEALANT ALONG ALL SLAB TO CURB JOINTS.
2. FOR CURB W AND H DIMENSIONS, SEE ARCH. DWGS.



NOTE: PROVIDE CHAMFER TH EXTERIOR CORNERS, TYP. U.

CHAMFER DETAIL

CONSTRUCTION JOINT NOTES:

1. CONSTRUCTION JOINTS SHALL BE DONE IN ACCORDANCE WITH ACI 318 SECTION 6.4.
2. LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY THE ARCHITECT AND ENGINEER.
3. JOINT REINFORCEMENT DESIGNED IN ACCORDANCE WITH ACI 318 SECTION 11.7
4. BEAM MARK CALLED OUT ON PLAN AND DIMENSIONS SHOWN IN SCHEDULE.
5. SLAB DIMENSIONS SHOWN ON DETAILS AND PLAN.
6. JOINTS IN BEAM OR SLAB OF DIMENSIONS NOT COVERED IN THIS SCHEDULE SHALL BE DESIGNED SEPARATELY FROM THE LOCATION INFORMATION SUPPLIED BY THE CONTRACTOR.

BAR SPLICES IN WALL
DOUBLE LAYER TYP.

VERT. REINF.

JOINT SPACING PER ELEVATIONS. IF NOT SHOWN PLACE @ 13'-6" MAX. NO MORE THAN 10'-0" FROM CORNER

HORIZ. WALL REINF.

1/2"

3/4"

PROVIDE REVEAL, EA. FACE, CONCR. OVER TOP OF WALL

180° HOOK AT ALL INTERRUPTED REINFORCEMENT

PROVIDE 2-4x(2) TIMES THE LEAST DIM. OF OPNG., 4" (MIN.), 5"(MAX) @ 4"OC. PLACE IN THE INNERMOST REBAR LAYER, 1-EACH FACE U.N.O. (TYP. FOUR CORNERS)

PROVIDE ADDLE REINF. @ 4" B EQ. TO 1/2 OF INTERRUPTED BARS @ EA. SIDE OF OPNG. BUT NOT LESS THAN 2-#5 EA. SIDE. LENGTH AND PLACEMENT OF THESE ADD'L BARS SHALL BE IN THE SAME AS MAIN UNINTERRUPTED BARS IN THE DIRECTION UNER CONSIDERATION, BUT SHALL NOT BE LESS THAN THE INDICATED LIMITS.

45 BAR DIA. TYP. 30" MIN.

45 BAR DIA.

2" CLR. TO FREE EDGE OR OBSTRUCTION

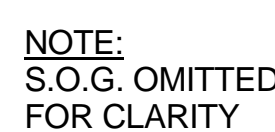
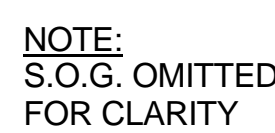
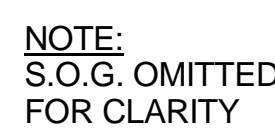
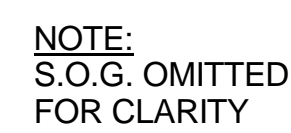
OR 180° HK OR OBSTRUCTION PLUS STD. DEVELOPMENT LENGTH. FOR HOOKED BARS

NOTE: THIS DETAIL APPLIES TO SLABS AND WALLS. REINFORCEMENT AROUND OPENINGS FOR WHICH

RE-ENTRANT CORNER
BARS TYP. DETAIL

CHAMFER DETAIL

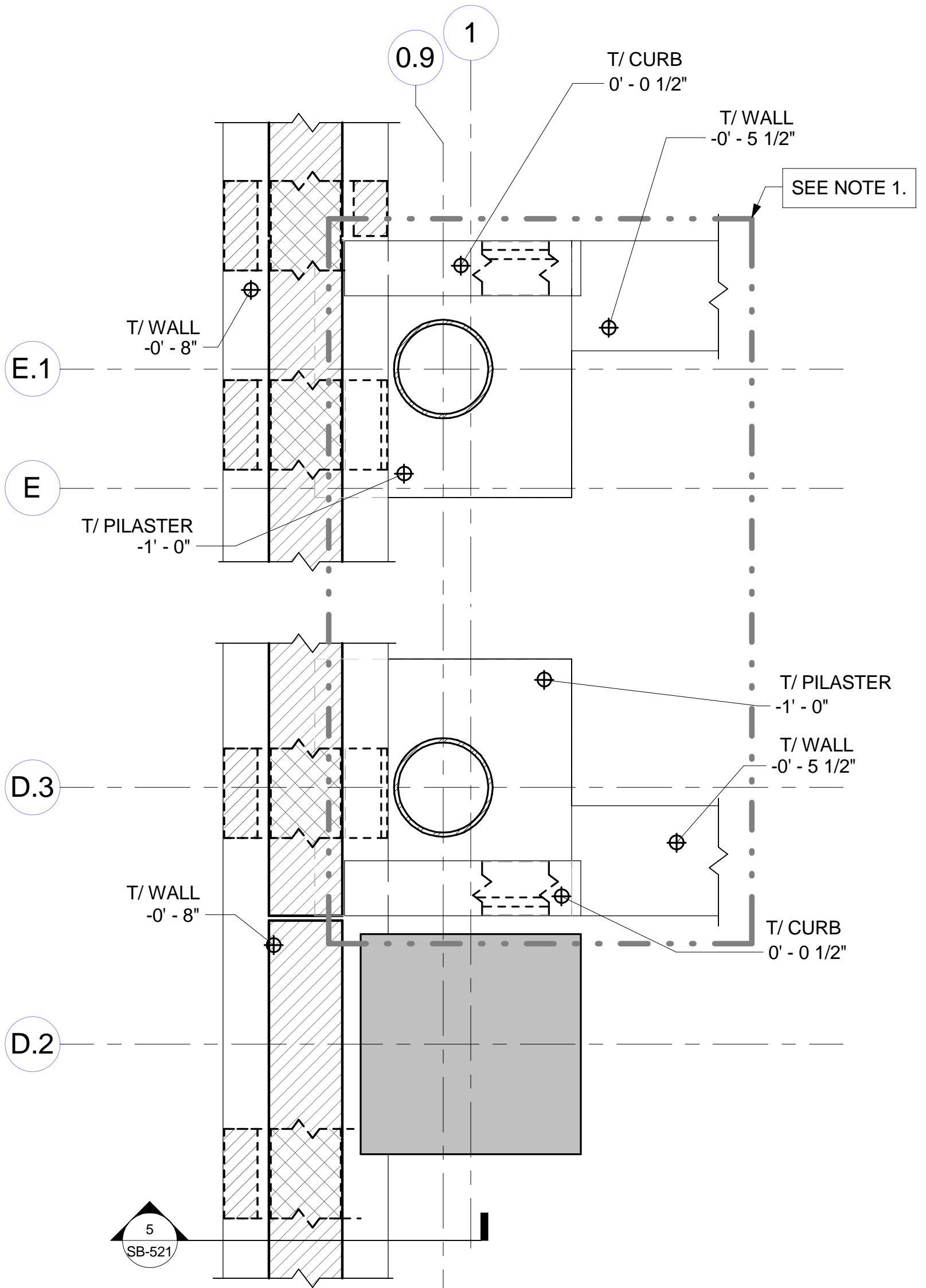
Department of
Veterans Affairs



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Veterans Affairs

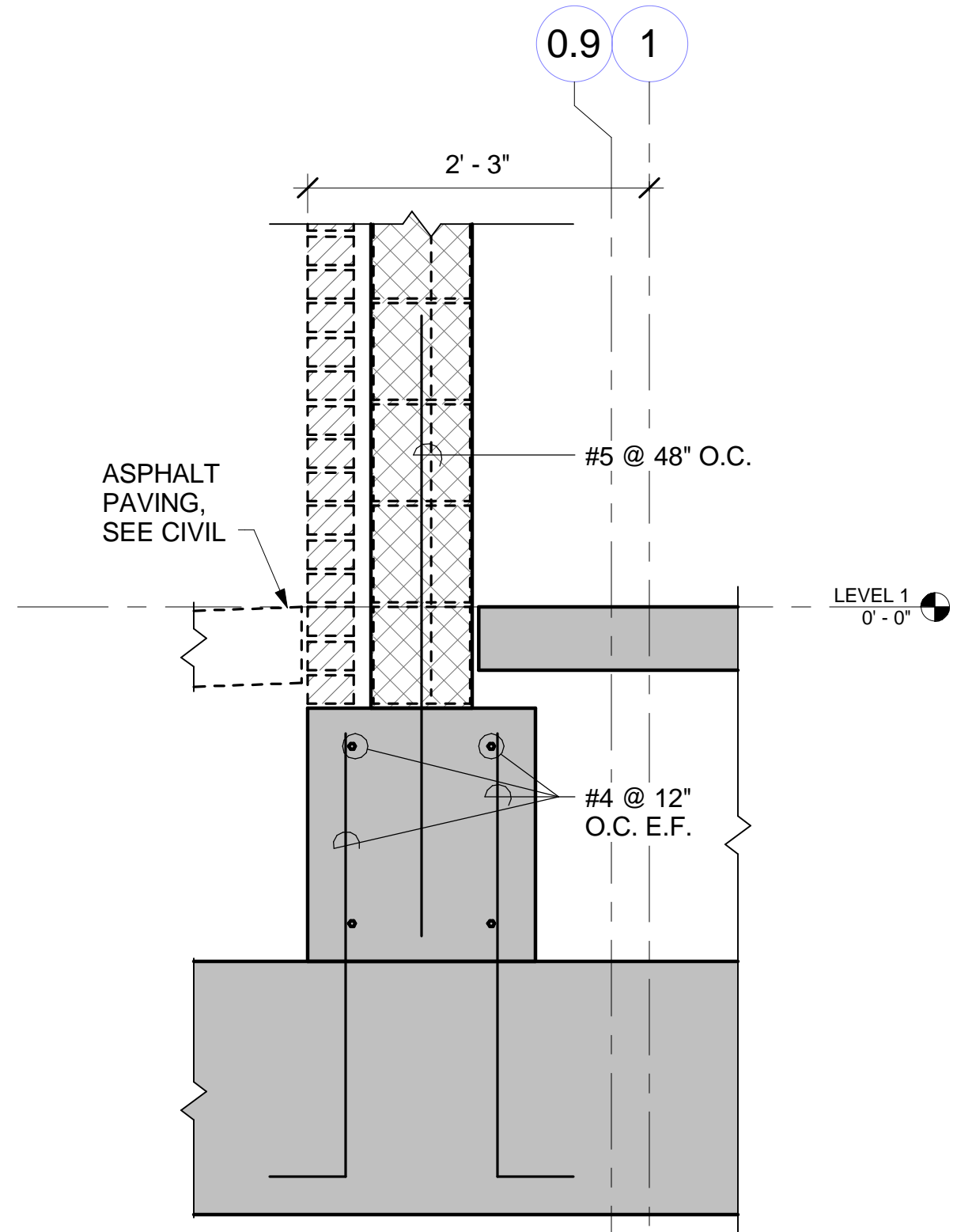
Scale: As indicated

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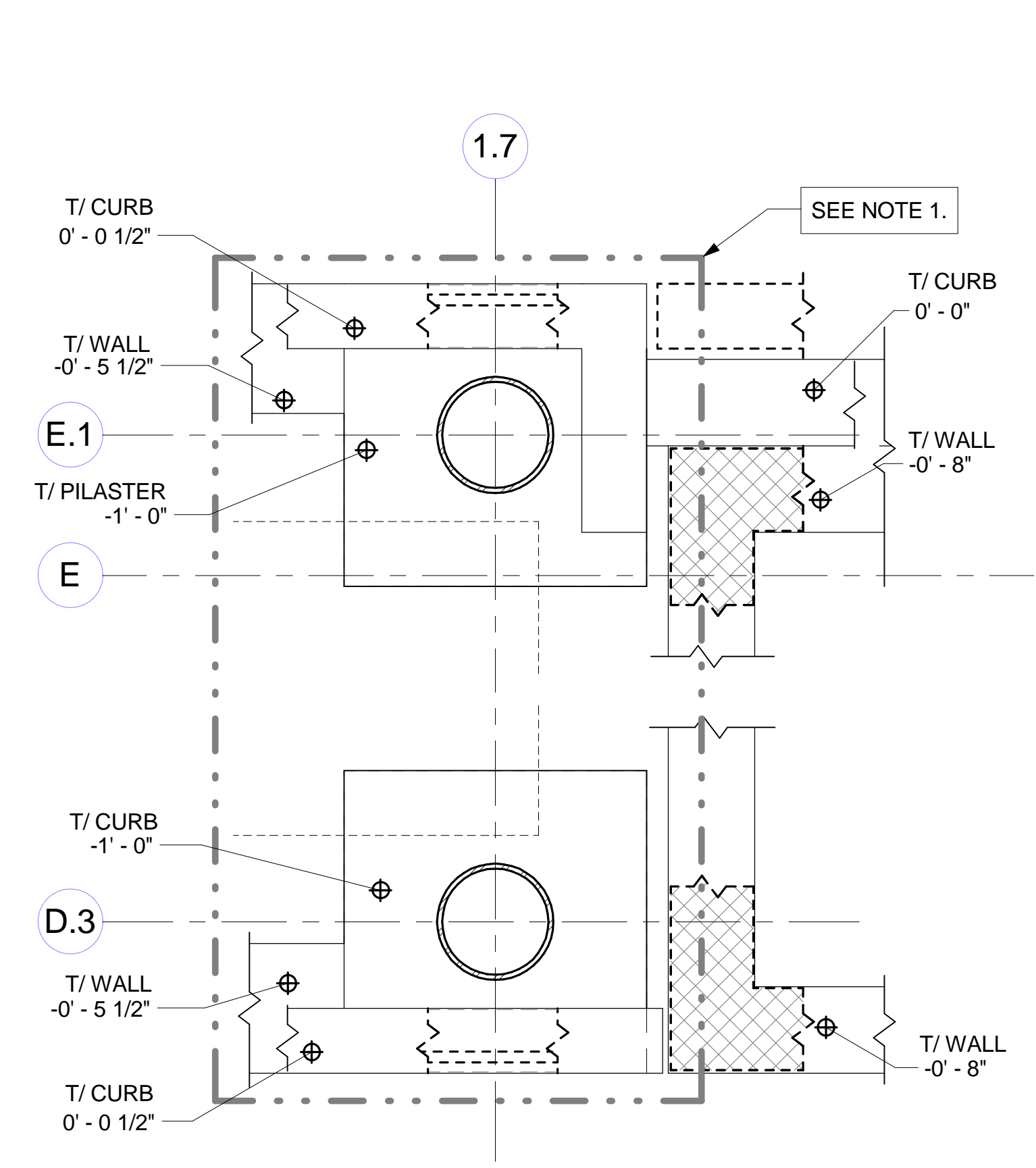
1
1" = 1'-0"

STAIR 2 WEST WALL
FOUNDATION PLAN DETAIL



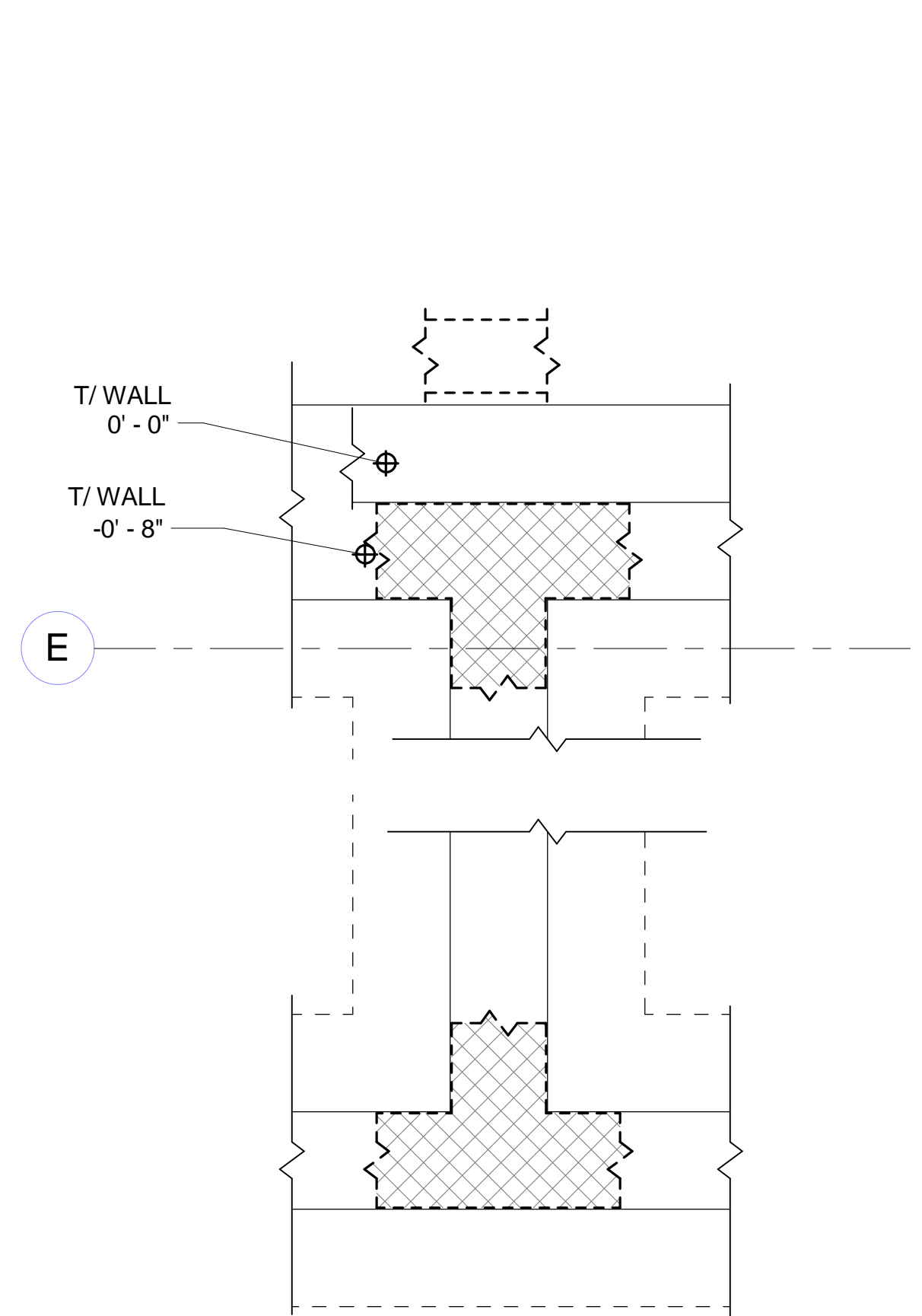
5
1" = 1'-0"

STAIR 2 WEST WALL
FOUNDATION SECTION



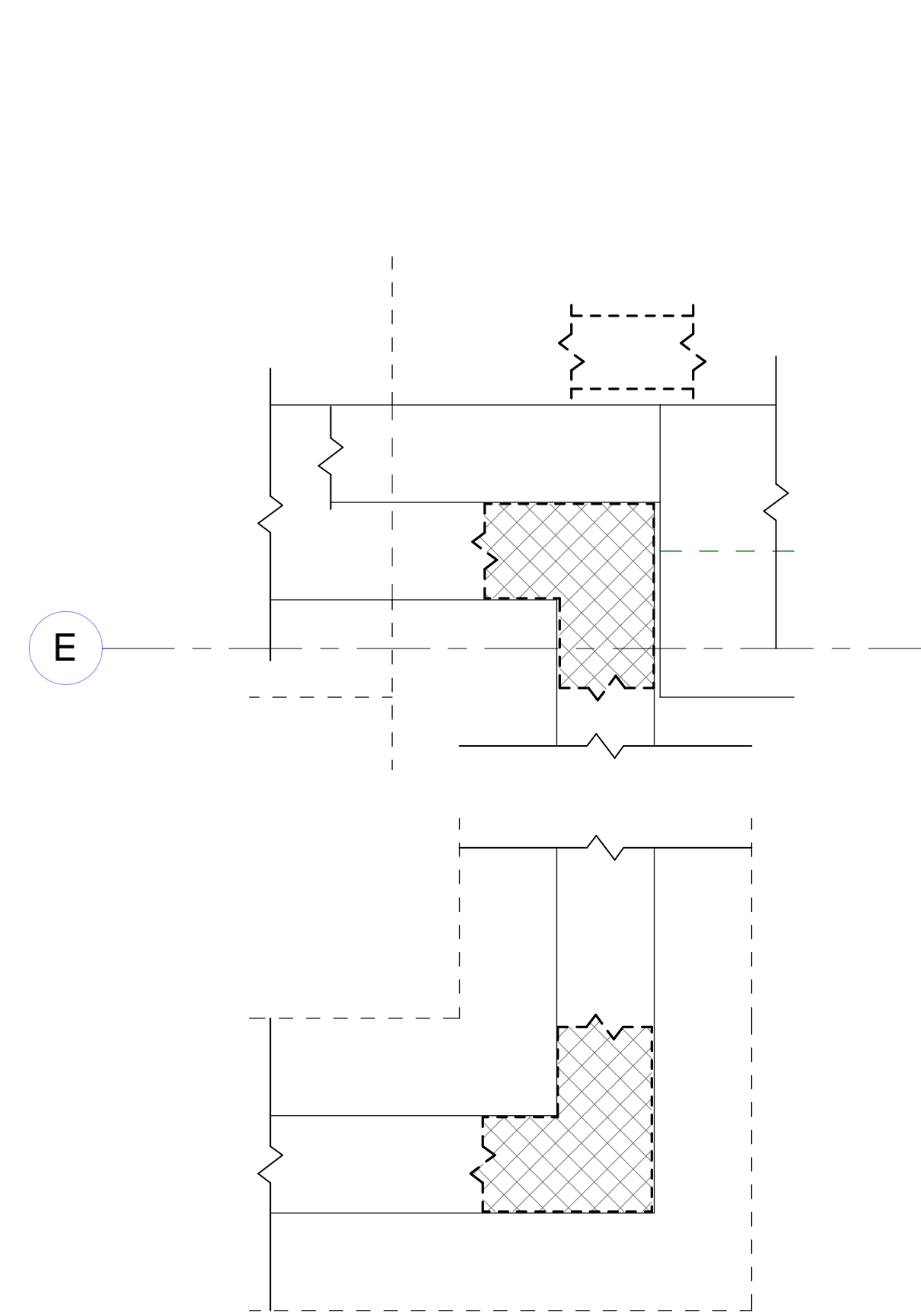
2
1" = 1'-0"

STAIR / ELECTRICAL ROOM
FOUNDATION PLAN DETAIL



3
1" = 1'-0"

ELECT. RM. / EMERG. ELECT. RM.
FOUNDATION PLAN DETAIL



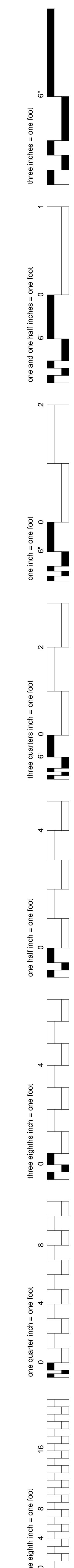
4
1" = 1'-0"

EMERGENCY ELECT. RM.
FOUNDATION PLAN DETAIL

NOTES:
1. DEDUCT ALTERNATE 10: OMIT STAIR 2 & ASSOCIATED FOOTINGS & FOUNDATION. ADD TYP. FROST WALL @ LINE "E" & TYP. S.O.G.

No.		Description	Date	CONSULTANTS Desman Associates 20 North Clark Street 4th Floor Chicago, Illinois 60602 312.263.8400		ARCHITECT/ ENGINEERS Westlake Reed Leskosky The Huntington Building 925 Euclid Avenue, Suite 1900 Cleveland, Ohio 44115-1407 216.522.1350		Drawing Title		Project Title		Project Number		Office of Construction and Facilities Management Department of Veterans Affairs	
		FINAL SUBMISSION	9/24/2013					STAIR 2 FOUNDATION DETAILS		VA Erie Parking Structure		11159.00			
												Building Number			
												Drawing Number			
												SB-521			
Revisions:			Date					Approved: J.H.		Location Erie, PA		Date 9/19/2013 10:49:26 AM		Checked B.I.	Drawn D.R.W.


FINAL SUBMISSION
Scale: 1" = 1'-0"



NOTES:

1. SEE SF-602 FOR CONC. COLUMN INFORMATION.
2. PROVIDE 2" ISOLATION JT. BETWEEN COL. & CMU WALLS. SEE ARCH. FOR FIRESAFE, WATER PROOFING & OTHER REQUIREMENTS.

1 LEVEL 1 FRAMING PLAN
3/32" = 1'-0"

No.	Description	Date	CONSULTANTS Desman Associates 20 North Clark Street 4th Floor Chicago, Illinois 60602 312.263.8400		ARCHITECT/ ENGINEERS Westlake Reed Leskosky The Huntington Building 925 Euclid Avenue, Suite 1900 Cleveland, Ohio 44115-1407 216.522.1350	Drawing Title		Project Title		Project Number		Office of Construction and Facilities Management  Department of Veterans Affairs	
	FINAL SUBMISSION	9/24/2013				LEVEL 1 FRAMING PLAN		VA Erie Parking Structure		11159.00			
										Building Number			
										Drawing Number			
										SF-101			
Revisions:		Date			Approved: J.H.		Location Erie, PA		Date 9/19/2013 10:49:29 AM		Checked B.I.	Drawn D.R.W.	

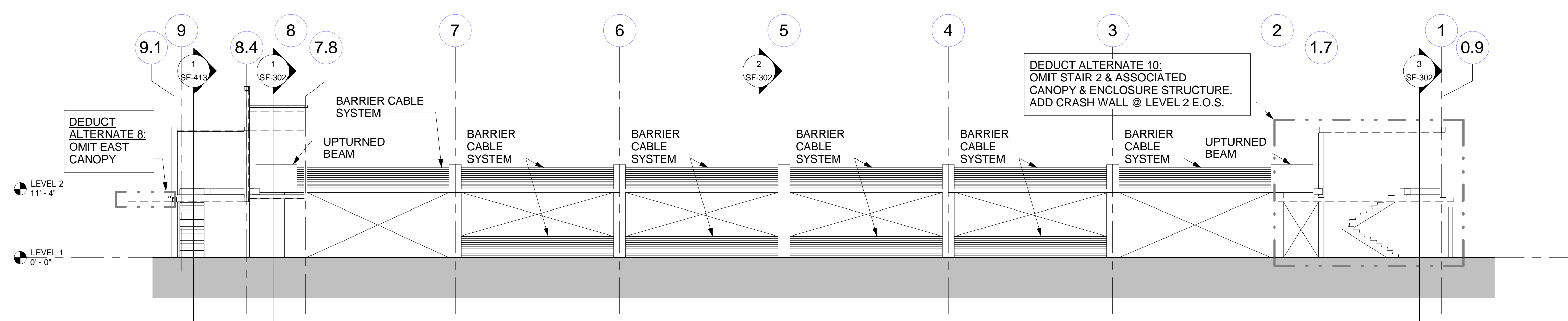
FINAL SUBMISSION
Scale: As indicated

Scale: As indicated

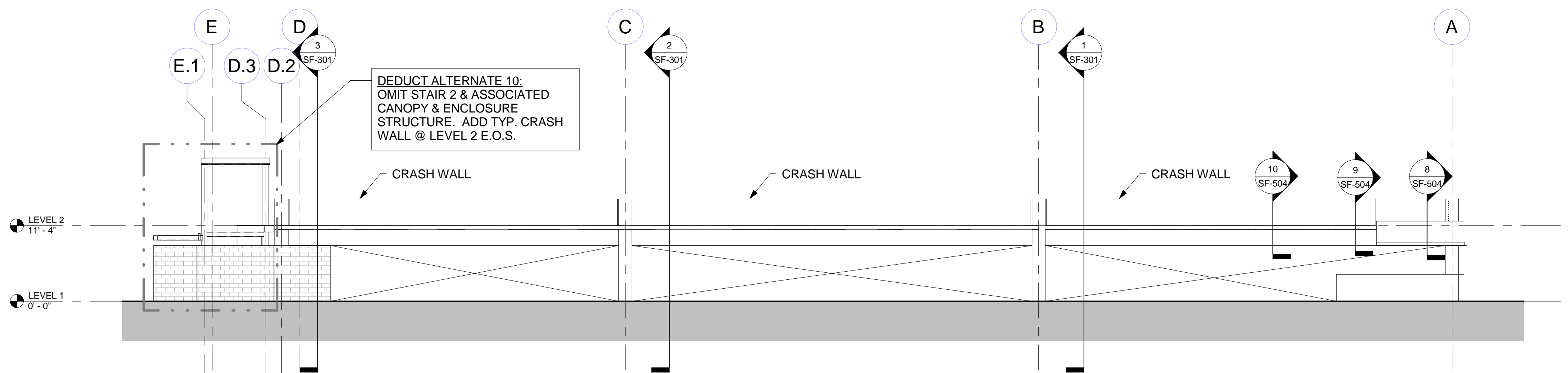
**Office of
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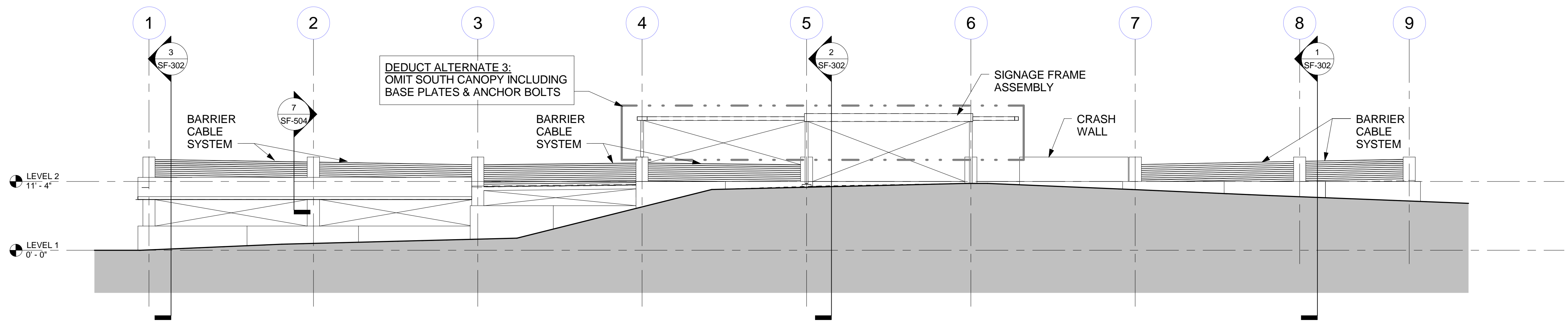
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One eighth inch = one foot



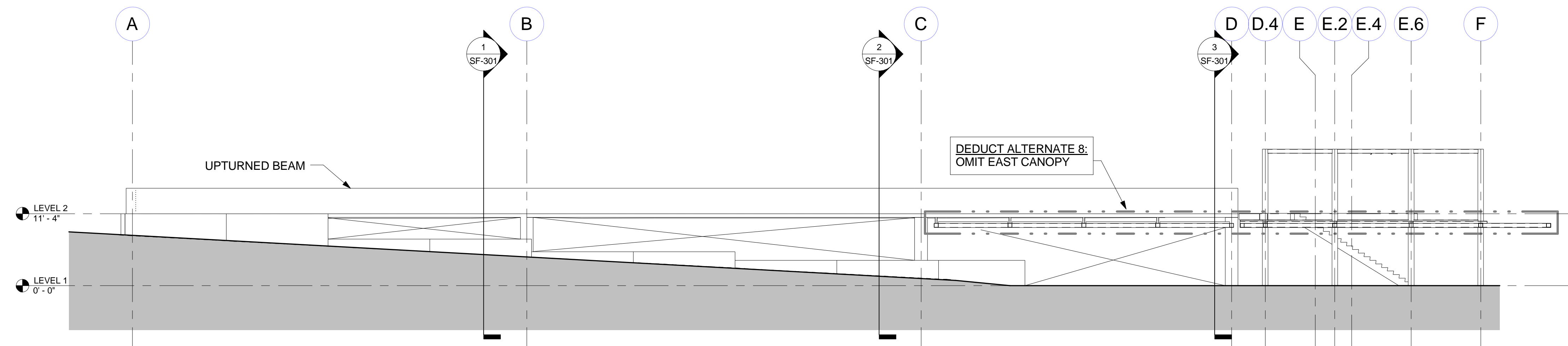
4 STRUCTURAL NORTH ELEVATION
3/32" = 1'-0"



3 STRUCTURAL WEST ELEVATION
3/32" = 1'-0"



2 STRUCTURAL SOUTH ELEVATION
3/32" = 1'-0"



1 STRUCTURAL EAST ELEVATION
3/32" = 1'-0"

<table border="1"><thead><tr><th>No.</th><th>Description</th><th>Date</th></tr></thead><tbody><tr><td></td><td>FINAL SUBMISSION</td><td>9/24/2013</td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td colspan="3">Revisions:</td><td>Date</td></tr></tbody></table>	No.	Description	Date		FINAL SUBMISSION	9/24/2013							Revisions:			Date	CONSULTANTS Desman Associates 20 North Clark Street 4th Floor Chicago, Illinois 60602 312.263.8400	ARCHITECT/ ENGINEERS Westlake Reed Leskosky The Huntington Building 925 Euclid Avenue, Suite 1900 Cleveland, Ohio 44115-1407 216.522.1350	<table border="1"><tr><td colspan="2">Drawing Title STRUCTURAL ELEVATIONS</td><td colspan="2">Project Title VA Erie Parking Structure</td><td colspan="2">Project Number 11159.00</td></tr><tr><td colspan="2">Approved: J.H.</td><td colspan="2">Location Erie, PA</td><td colspan="2">Building Number</td></tr><tr><td colspan="2">Date 9/19/2013 10:49:32 AM</td><td>Checked B.I.</td><td>Drawn D.R.W.</td><td colspan="2">Drawing Number SF-201</td></tr></table>	Drawing Title STRUCTURAL ELEVATIONS		Project Title VA Erie Parking Structure		Project Number 11159.00		Approved: J.H.		Location Erie, PA		Building Number		Date 9/19/2013 10:49:32 AM		Checked B.I.	Drawn D.R.W.	Drawing Number SF-201		Office of Construction and Facilities Management Department of Veterans Affairs
	No.	Description	Date																																			
		FINAL SUBMISSION	9/24/2013																																			
Revisions:			Date																																			
Drawing Title STRUCTURAL ELEVATIONS		Project Title VA Erie Parking Structure		Project Number 11159.00																																		
Approved: J.H.		Location Erie, PA		Building Number																																		
Date 9/19/2013 10:49:32 AM		Checked B.I.	Drawn D.R.W.	Drawing Number SF-201																																		

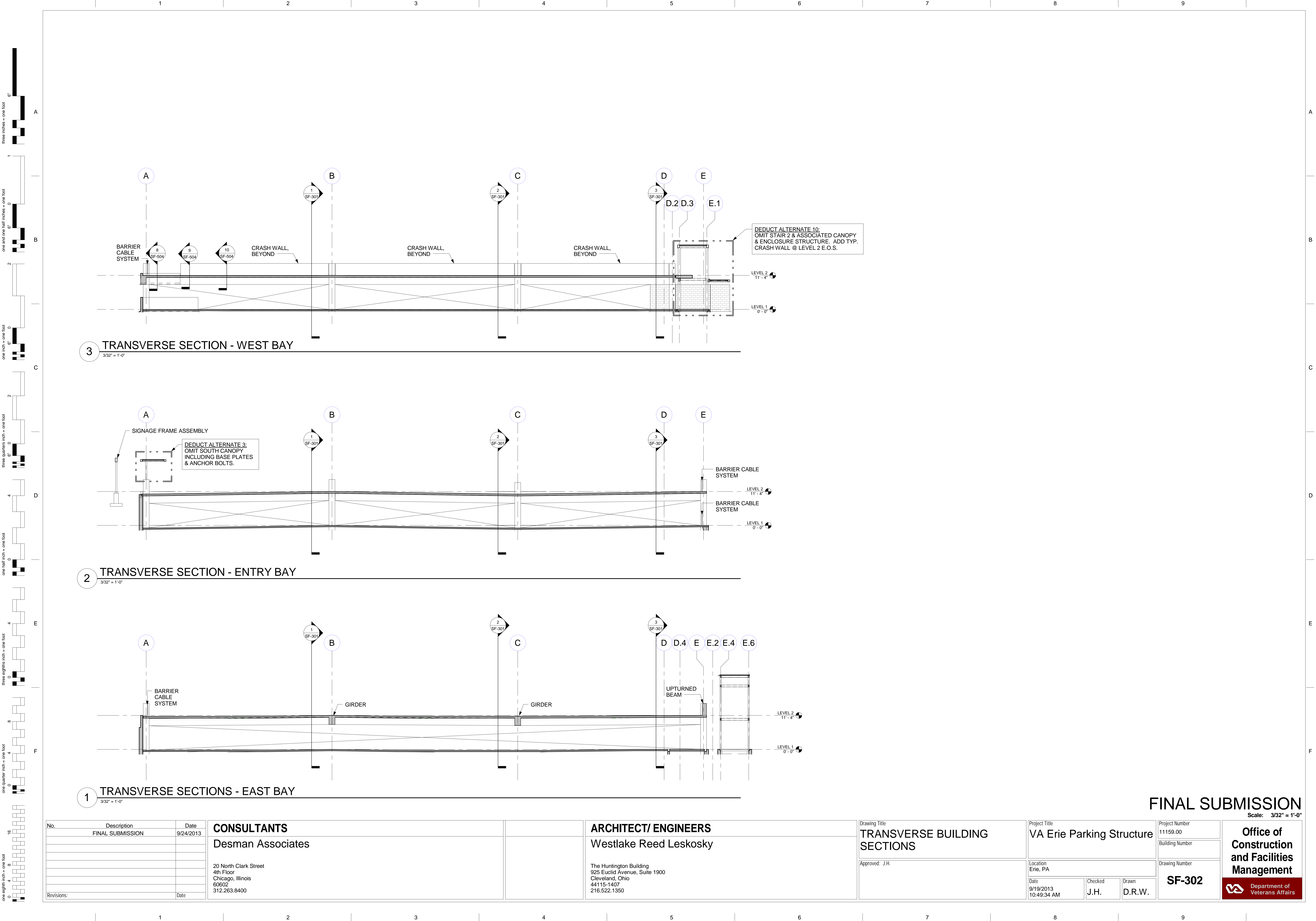
FINAL SUBMISSION
Scale: 3/32" = 1'-0"



Department of
Veterans Affairs

FINAL SUBMISSION

Scale: $3/32" = 1'-0"$



No.	Description	Date
	FINAL SUBMISSION	9/24/2013
Revisions:		Date

CONSULTANTS Desman Associates
20 North Clark Street 4th Floor Chicago, Illinois 60602 312.263.8400

ARCHITECT/ ENGINEERS Westlake Reed Leskosky
The Huntington Building 925 Euclid Avenue, Suite 1900 Cleveland, Ohio 44115-1407 216.522.1350

Drawing Title TRANSVERSE BUILDING SECTIONS
Approved: J.H.

Project Title VA Erie Parking Structure
Location Erie, PA
Date 9/19/2013 10:49:34 AM
Checked J.H.
Drawn D.R.W.

Project Number 11159.00
Building Number
Drawing Number SF-302

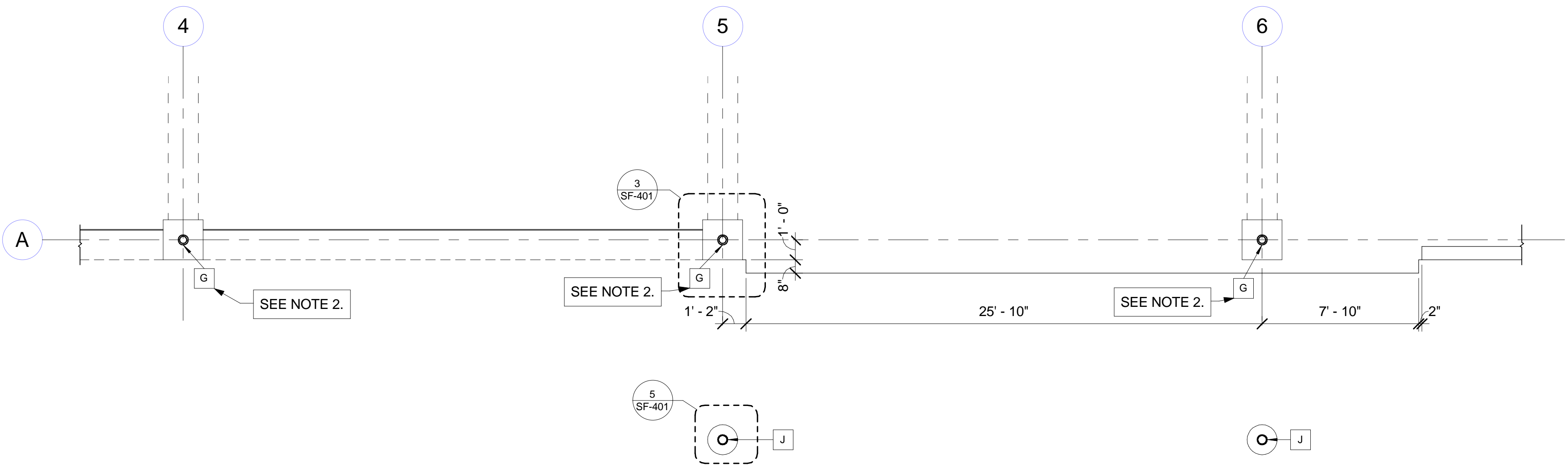
Office of
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and Facilities
Management

Department of
Veterans Affairs

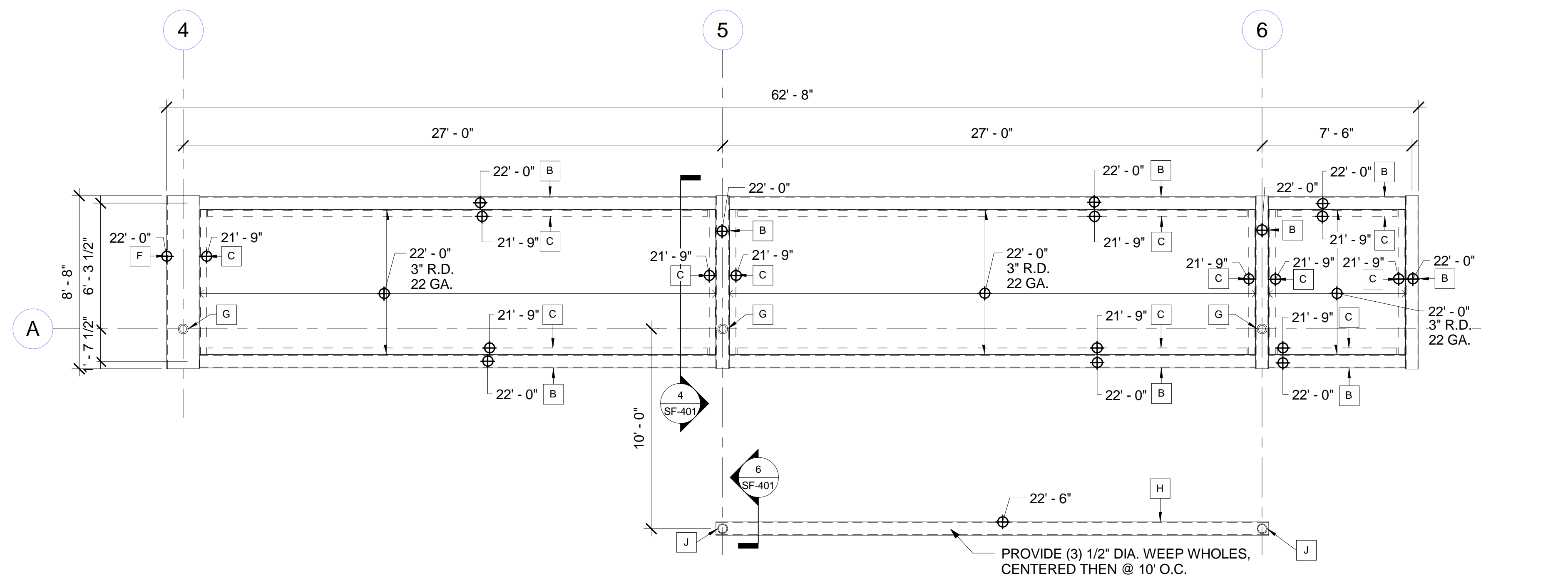
FINAL SUBMISSION

Scale: 3/32" = 1'-0"

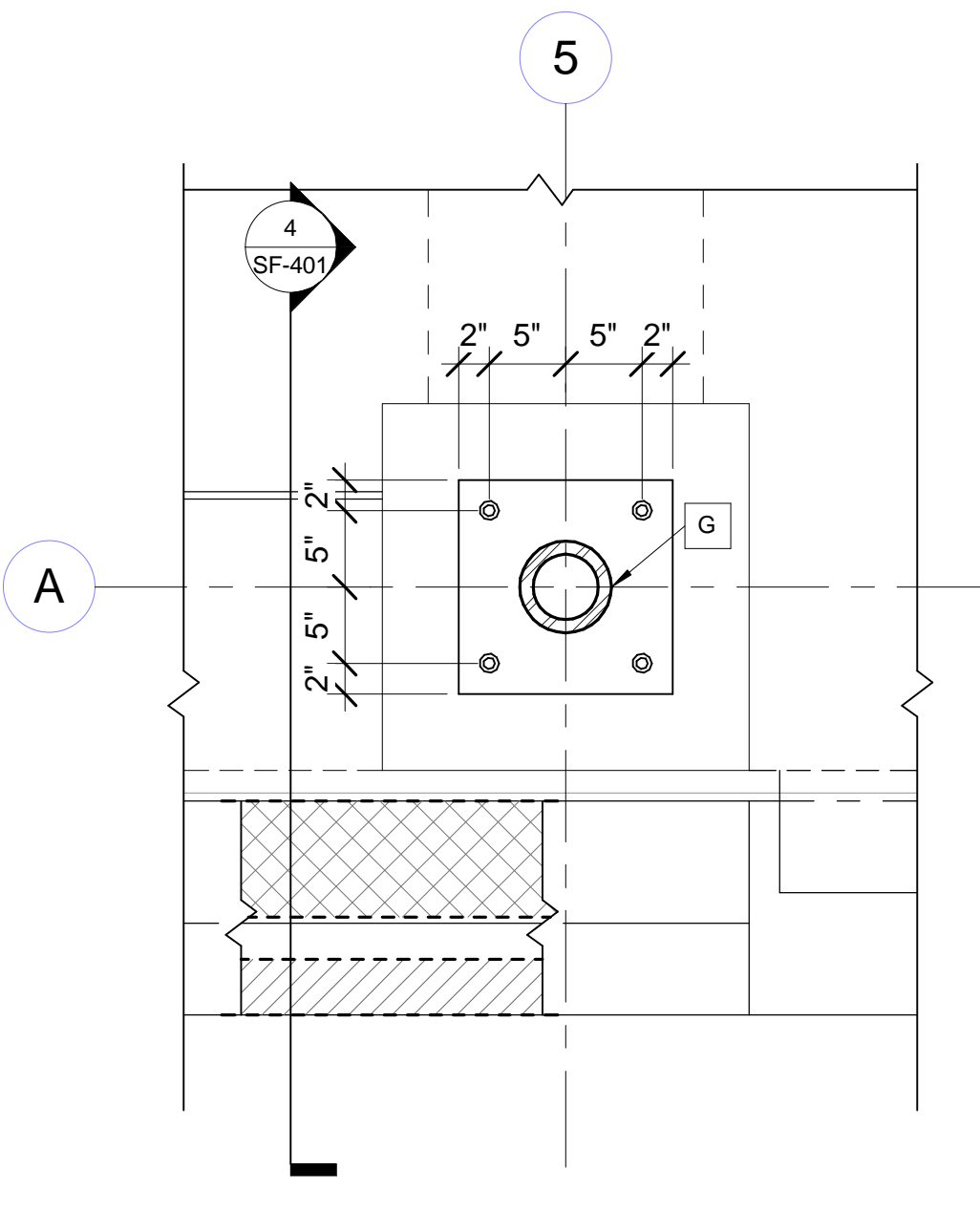
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one sixteenth inch = one foot



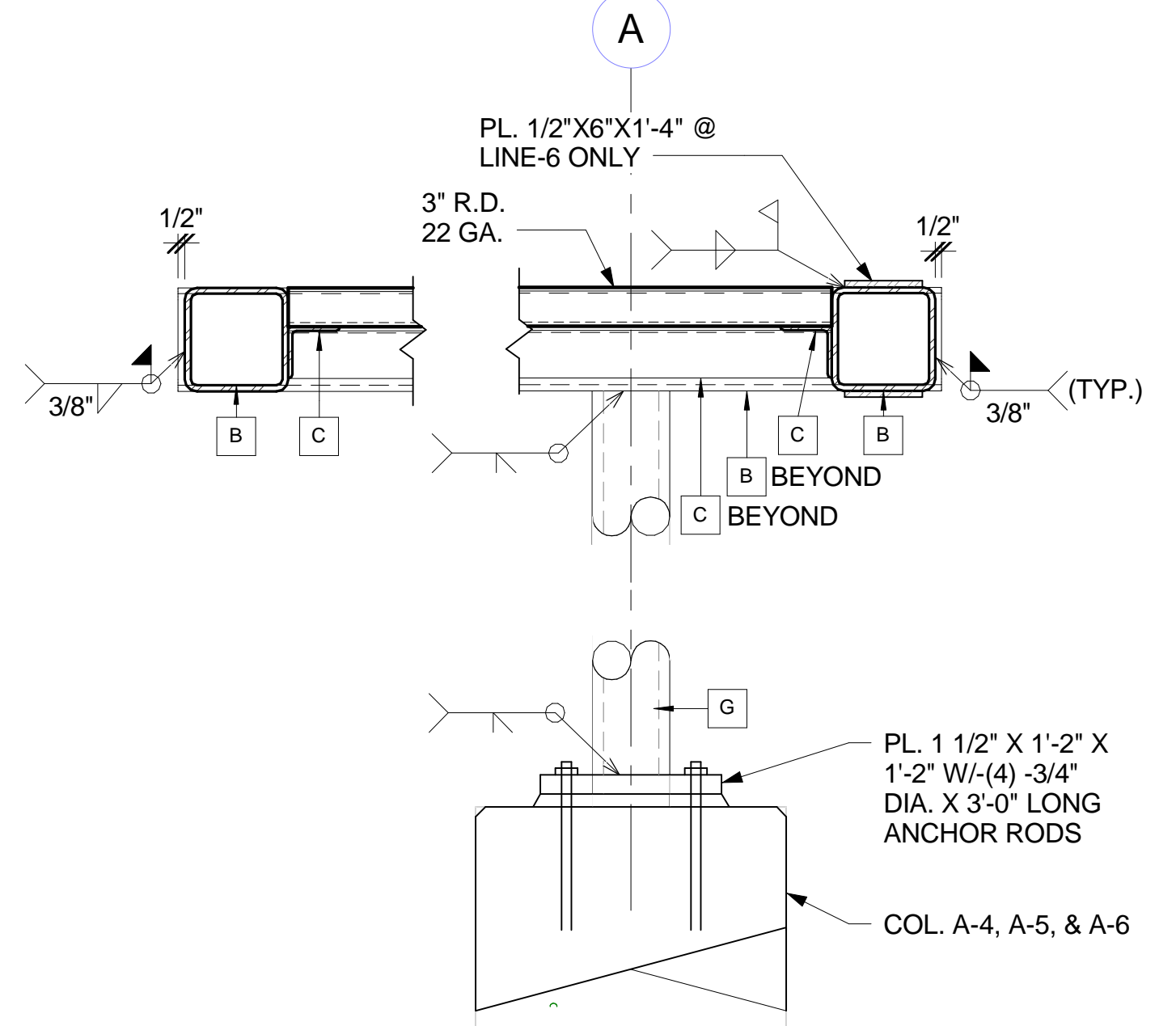
1 LEVEL 2 ENTRY DRIVE ENLARGED PLAN
1/4" = 1'-0"



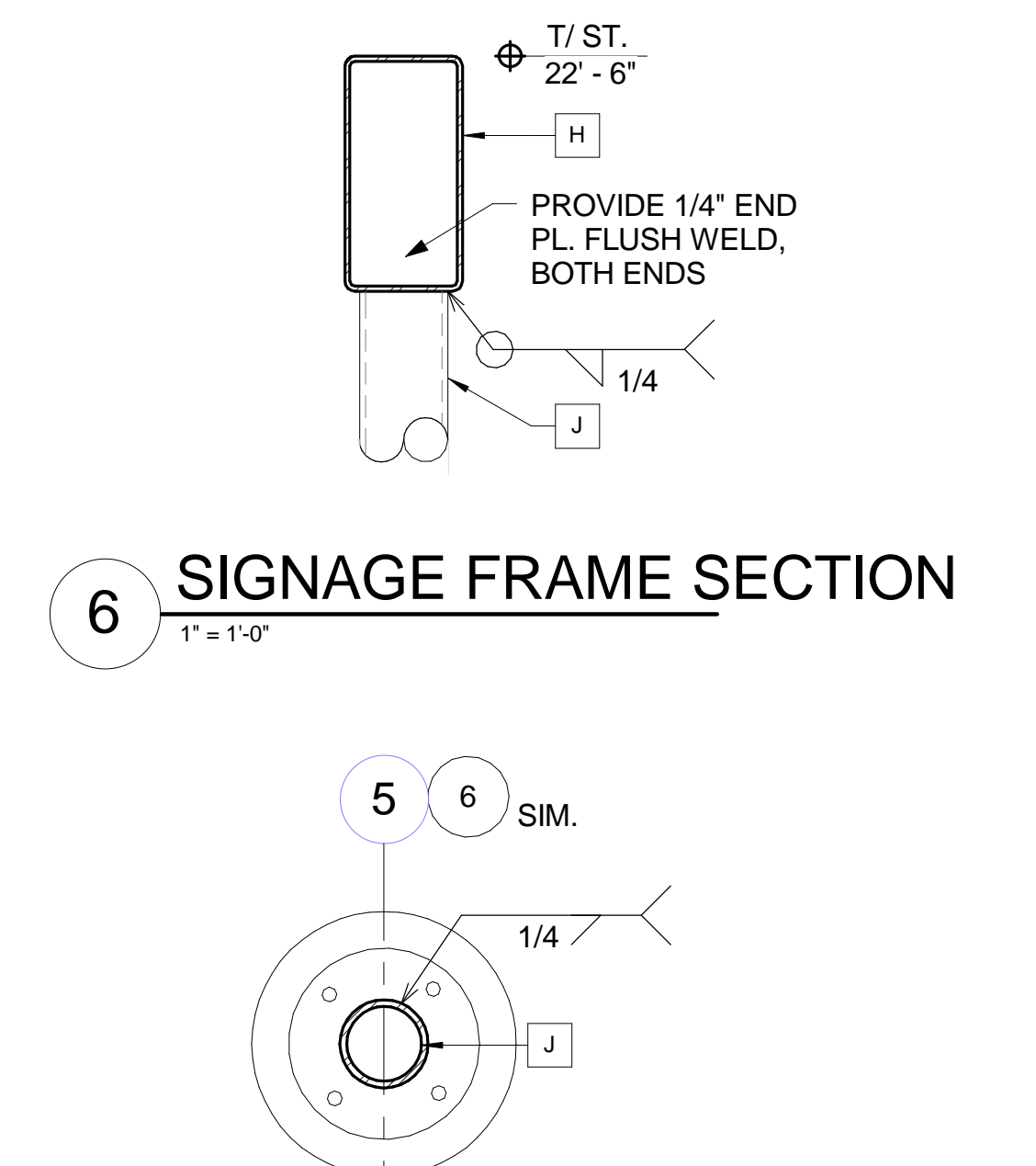
2 LEVEL 2 DRIVE CANOPY FRAMING PLAN
1/4" = 1'-0"



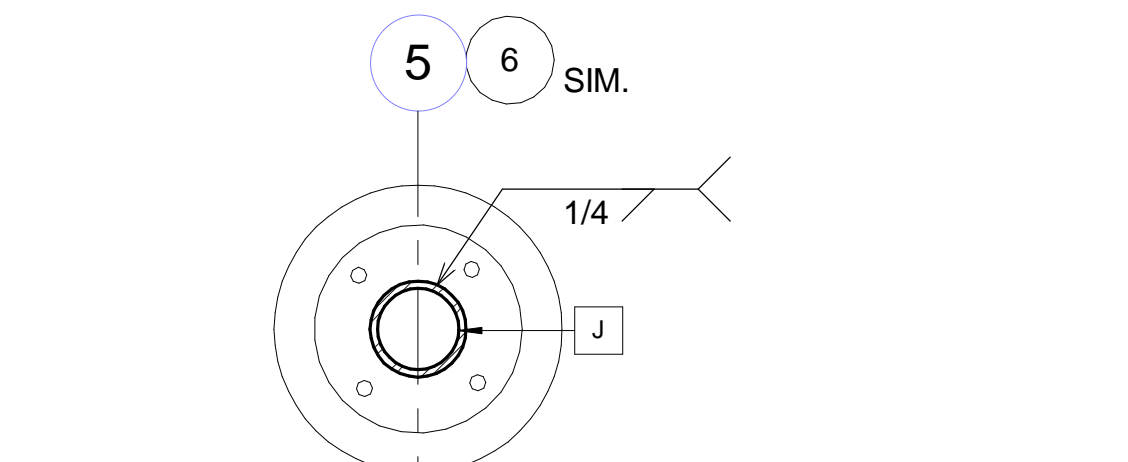
3 LEVEL 2 DRIVE CANOPY PLAN DETAIL
1" = 1'-0"



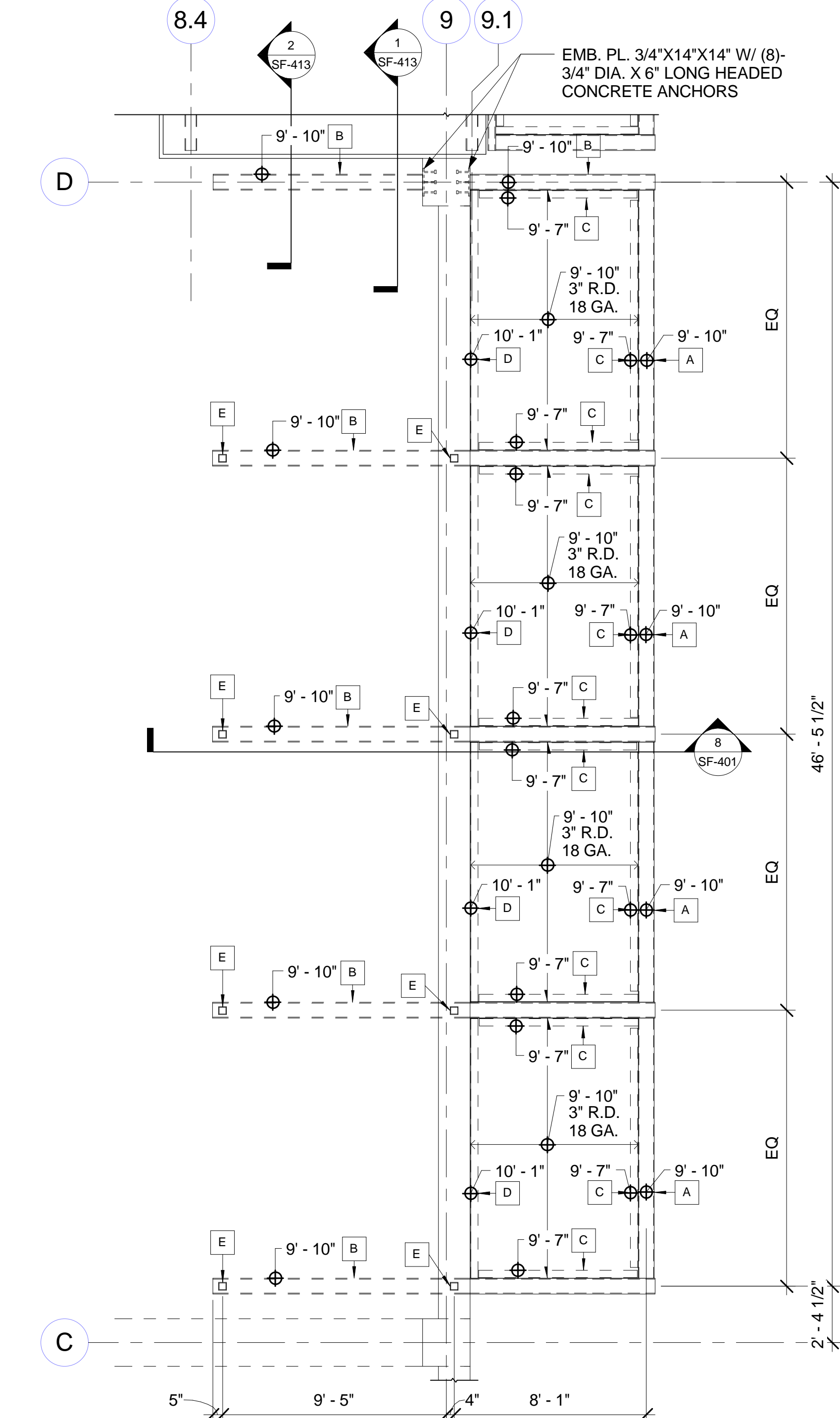
4 LEVEL 2 DRIVE CANOPY SECTION
1" = 1'-0"



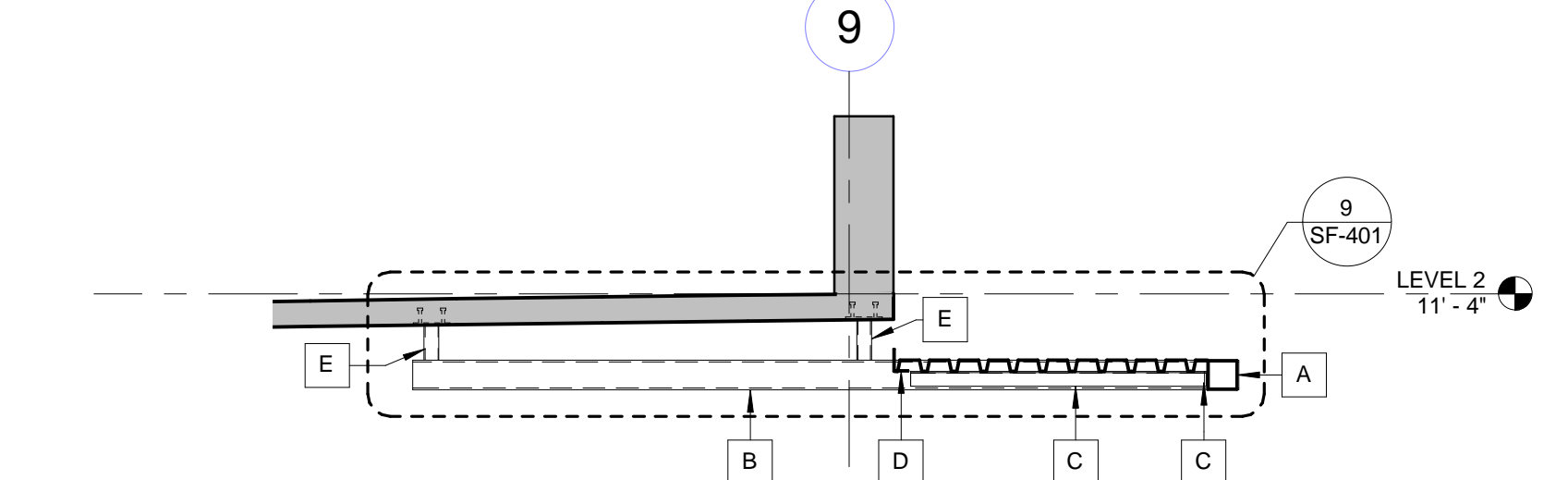
6 SIGNAGE FRAME SECTION
1" = 1'-0"



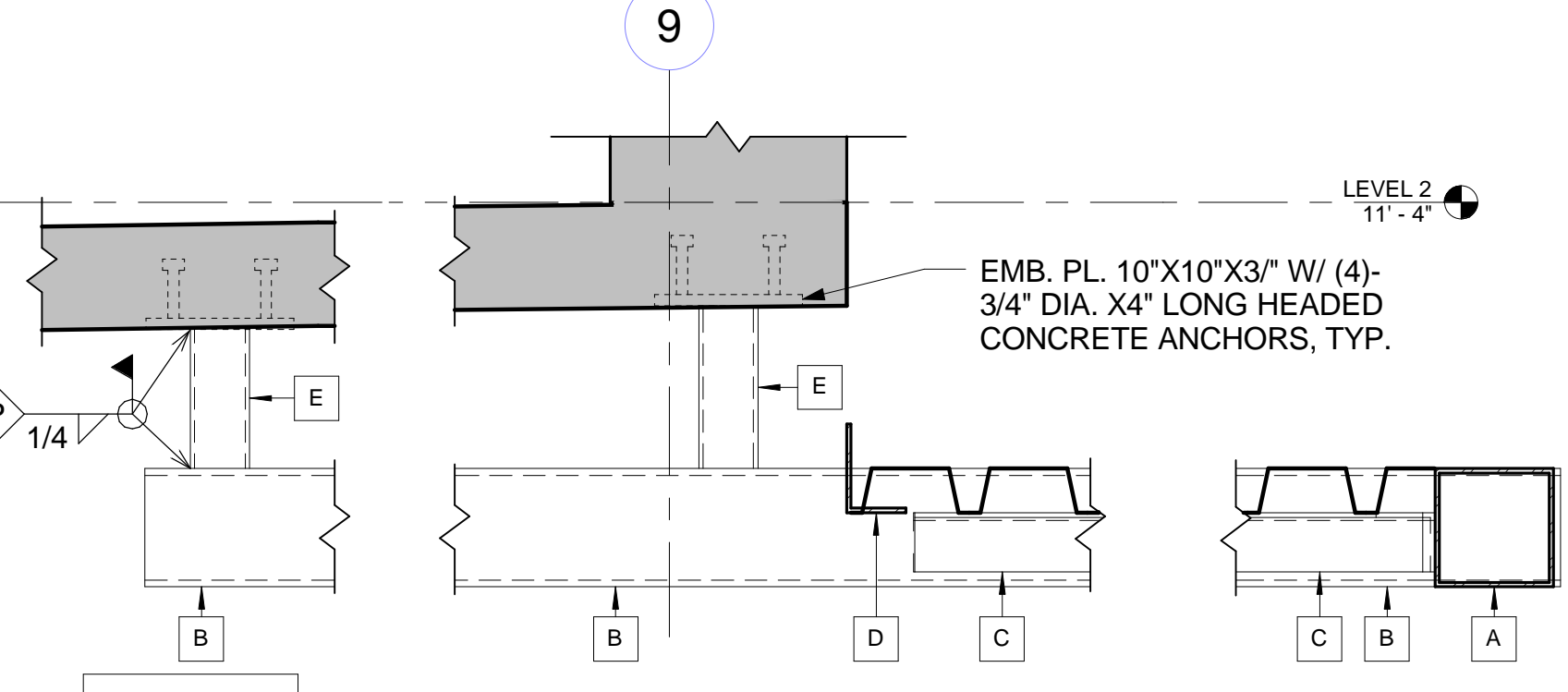
5 SIGNAGE FRAME PLAN
1" = 1'-0"



7 LEVEL 1 DRIVE CANOPY FRAMING PLAN
1/4" = 1'-0"



8 LEVEL 1 DRIVE CANOPY SECTION
1/4" = 1'-0"



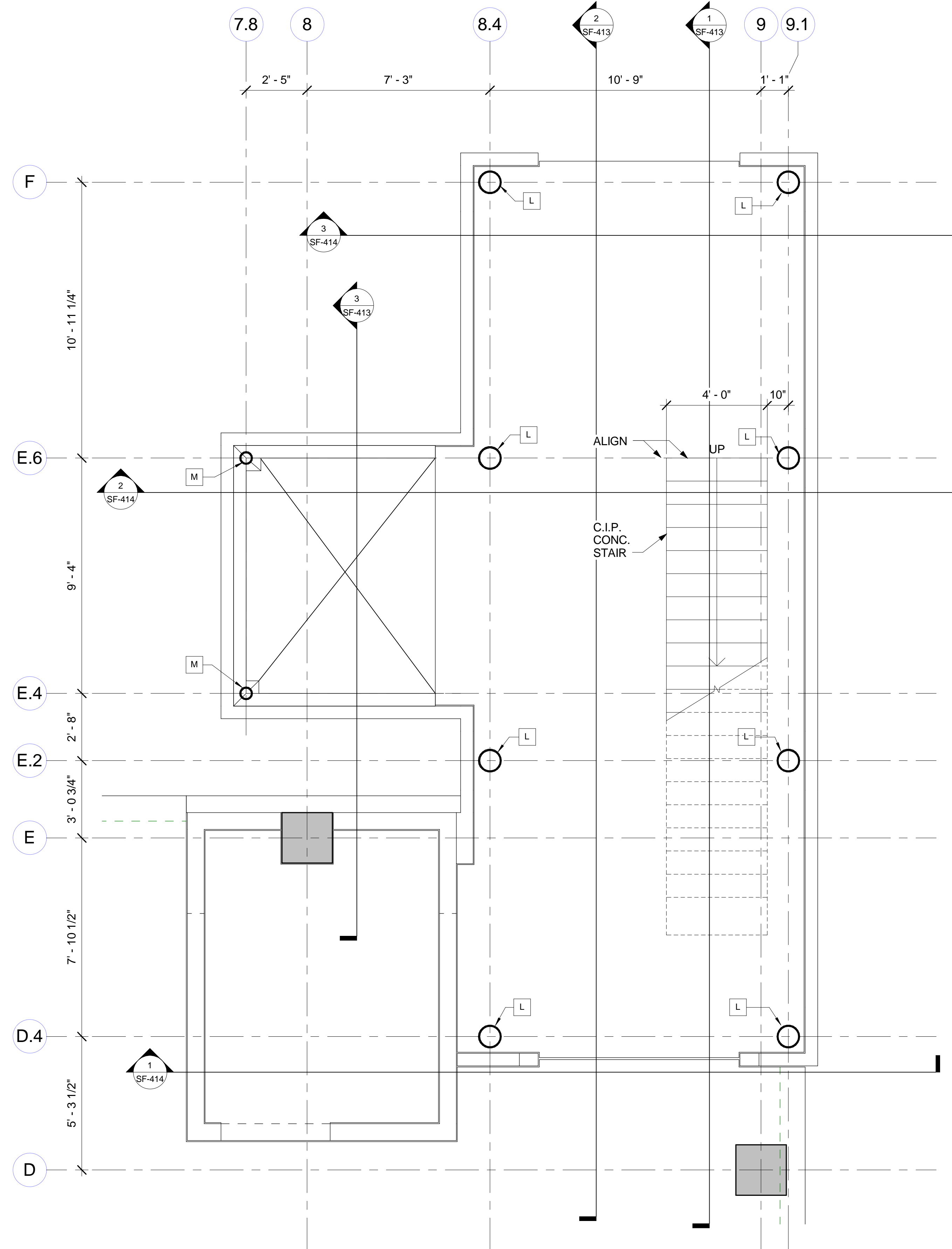
9 LEVEL 1 DRIVE CANOPY DETAIL
1" = 1'-0"

- NOTES:
- ELEVATIONS THIS SHEET ARE TOP OF STEEL, U.N.O.
 - DEDUCT ALTERNATE 3: OMIT SOUTH CANOPY INCLUDING BASE PLATE & ANCHOR BOLTS.
 - DEDUCT ALTERNATE 8: OMIT EAST CANOPY. EMBEDS TO REMAIN.

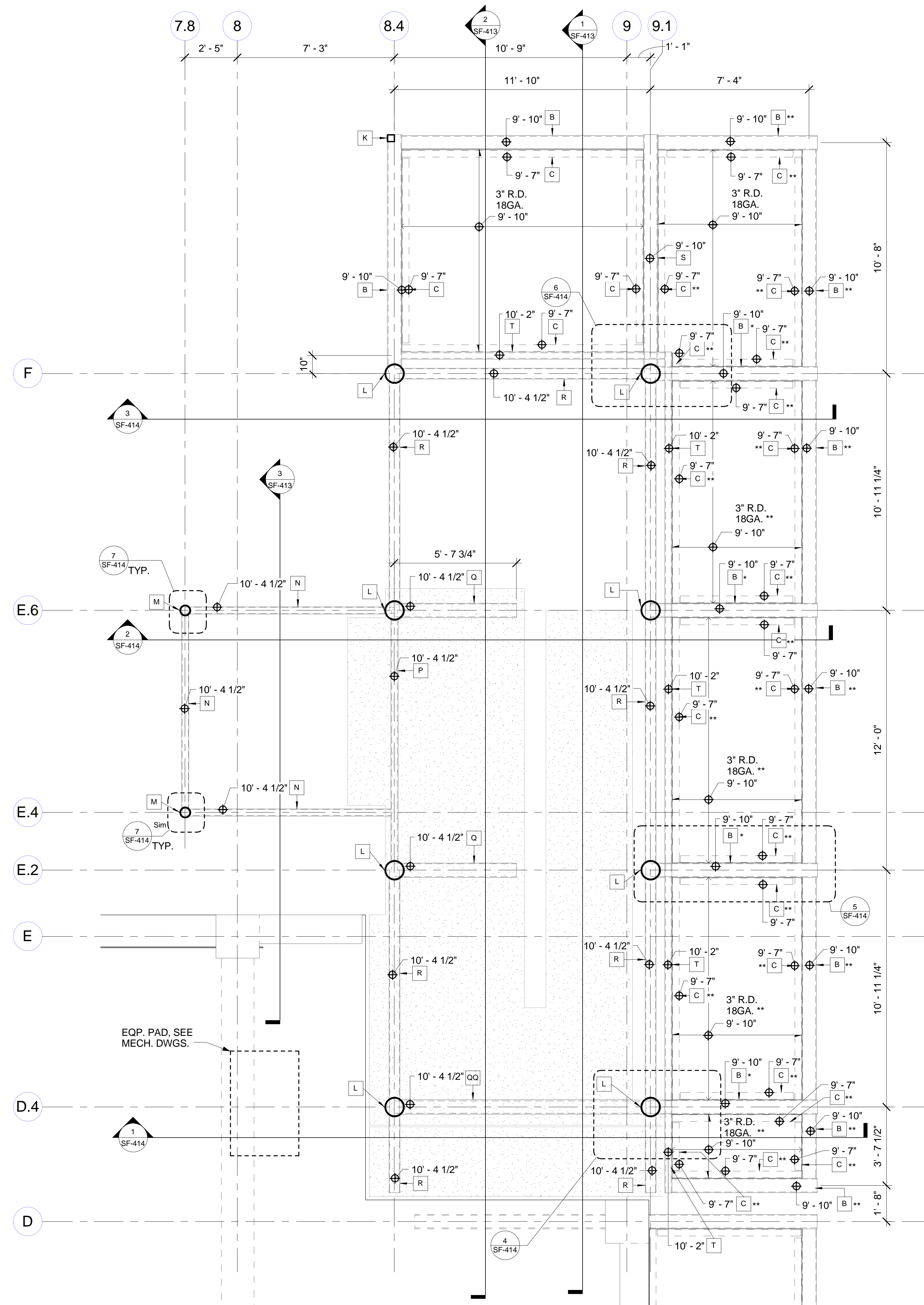
STEEL FRAMING MEMBERS	
A	HSS 8x8x5/16
B	HSS 8x8x1/2
C	L 4x4x5/16
CC	L 3x3x5/16
D	L 6x4x5/16
E	HSS 4x4x5/16
F	HSS 20x8x1/2 (HORIZ.)
G	6" DIA. DBL EXTRA STRONG PIPE
H	HSS1 16x8x3/8
J	6" DIA. EXTRA STRONG PIPE
K	HSS 4x4x1/4
L	HSS 10.750x0.500
M	HSS 6x0.500
N	HSS 8x4x5/16
P	HSS 8x4x1/2
Q	HSS 10x8x1/2
QQ	HSS 10x8x5/8
R	HSS 10x6x3/8
S	HSS 8x8x5/8
T	HSS 12x4x1/2
U	HSS 8x6x3/8
V	HSS 12x6x1/2
W	W 8x24 (HOIST BEAM)
WW	MCC 6X12
Y	HSS 12x8x1/2
Z	BENT PL 20"x10'-4"x3/8"
ZZ	FLAT PL 39"x11"x1/4"

FINAL SUBMISSION
Scale: As indicated

No.	Description	Date	CONSULTANTS	ARCHITECT/ ENGINEERS	Drawing Title	Project Title	Project Number	Office of Construction and Facilities Management Department of Veterans Affairs		
	FINAL SUBMISSION	9/24/2013	Desman Associates	Westlake Reed Leskosky	CANOPY ENLARGED VIEWS	VA Erie Parking Structure	11159.00			
			20 North Clark Street 4th Floor Chicago, Illinois 60602 312.263.8400	The Huntington Building 925 Euclid Avenue, Suite 1900 Cleveland, Ohio 44115-1407 216.522.1350	Approved: J.H.	Location Erie, PA	Drawing Number SF-401			
Revisions:		Date				Date 9/19/2013 10:49:36 AM	Checked B.I.	Drawn D.R.W.		



1 ELEVATOR / STAIR 1 LEVEL 1 FRAMING PLAN
3/8" = 1'-0"



2 ELEVATOR / STAIR 1 LEVEL 2 FRAMING PLAN
3/8" = 1'-0"

NOTES:

1. SEE SB-SERIES DRAWINGS FOR STEEL COLUMN BASE PLATE INFORMATION.
2. ELEVATIONS THIS SHEET ARE TOP OF STEEL, U.N.O.
3. DEDUCT ALTERNATE 8: OMIT EAST CANOPY. STEEL MEMBERS TO TERMINATE @ EAST FACE OF "T" ARE DESIGNATED " * ". STEEL MEMBERS TO BE OMITTED ARE DESIGNATED " * * ".

LEGEND

- = REBAR
- ① = #5 @ 12" O.C. T & B
 - ② = #4 @ 12" O.C. TEMP. REBAR
 - ③ = #4 @ 12" O.C. T & B
 - ④ = #4 NOSING BARS
 - ⑤ = #5 @ 12" O.C.
 - ⑥ = #6 @ 6" O.C.
 - ⑦ = 3/4" DIA. 6" STUDS @ 12" O.C.

	STEEL FRAMING MEMBERS
A	HSS 8x8x5/16
B	HSS 8x8x1/2
C	L 4x4x5/16
CC	L 3x3x5/16
D	L 6x4x5/16
E	HSS 4x4x5/16
F	HSS 20x8x1/2 (HORIZ.)
G	6" DIA. DBL EXTRA STRONG PIPE
H	HSS 16x8x3/8
J	6" DIA. EXTRA STRONG PIPE
K	HSS 4x4x1/4
L	HSS 10.750x0.500
M	HSS 6x0.500
N	HSS 8x4x5/16
P	HSS 8x4x1/2
Q	HSS 10x8x1/2
QQ	HSS 10x8x5/8
R	HSS 10x6x3/8
S	HSS 8x8x5/8
T	HSS 12x4x1/2
U	HSS 8x6x3/8
V	HSS 12x6x1/2
W	W 8x24 (HOIST BEAM)
WW	MCC 6X12
Y	HSS 12x8x1/2
Z	BENT PL 20"x10"-4"x3/8"
ZZ	FLAT PL 39"x11"x1/4"

FINAL SUBMISSION

Scale: As indicated

No.	Description	Date
	FINAL SUBMISSION	9/24/2013
Revisions:		Date

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ARCHITECT/ ENGINEERS
Westlake Reed Leskosky

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Cleveland, Ohio
44115-1407
216.522.1350

Drawing Title
**ELEVATOR/STAIR 1 FRAMING
ENLARGED VIEWS - 1**

Approved: J.H.

Project Title	VA Erie Parking Structure
---------------	---------------------------

	Location

Erie, PA

Date
9/19/2013
10:40:40 AM

Checked
B.I.

Drawn	
D.R.W.	

Project Number

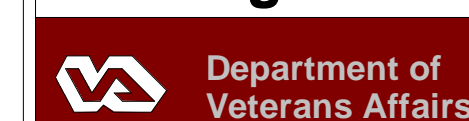
11159.00

Building Number

Drawing Number

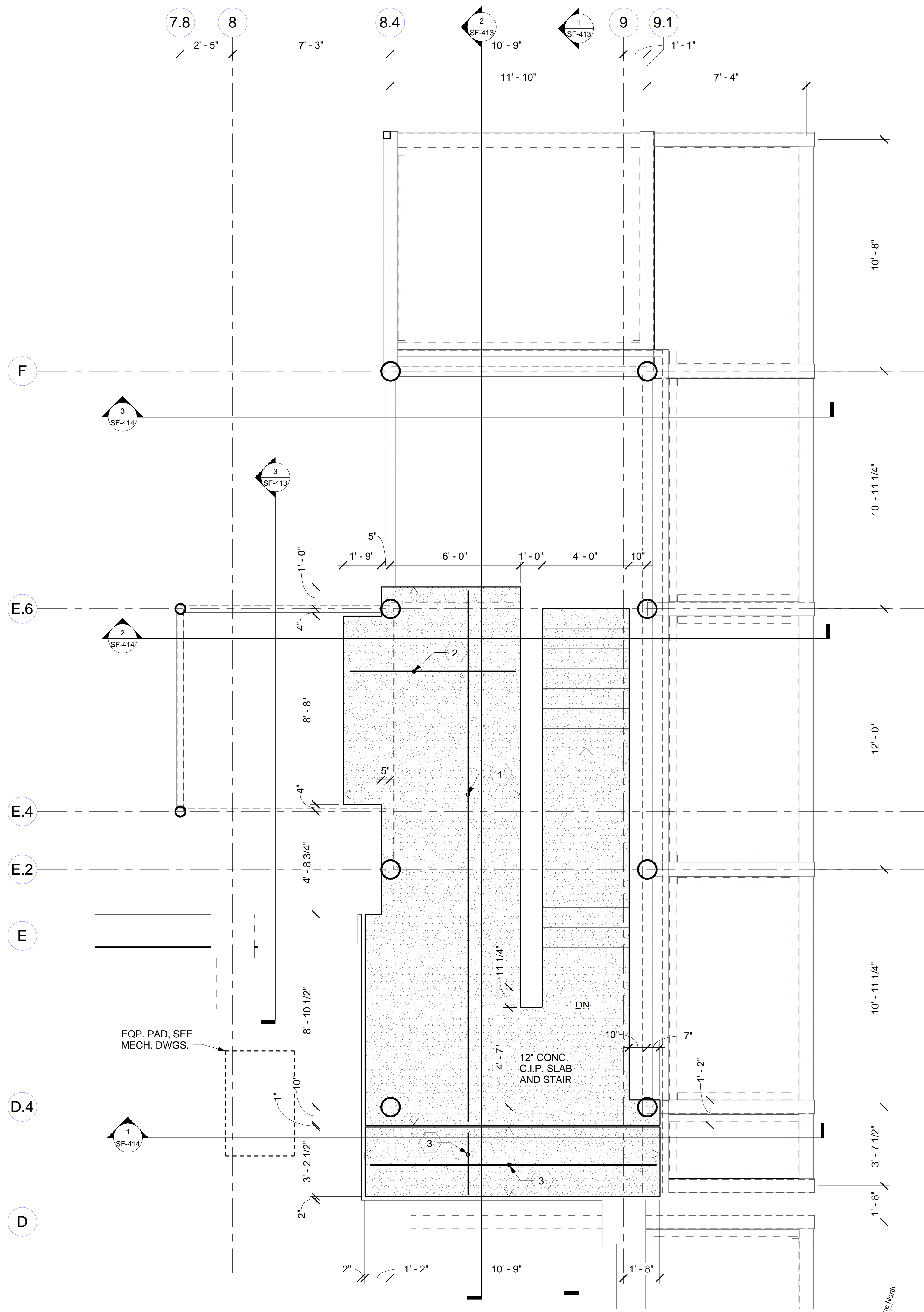
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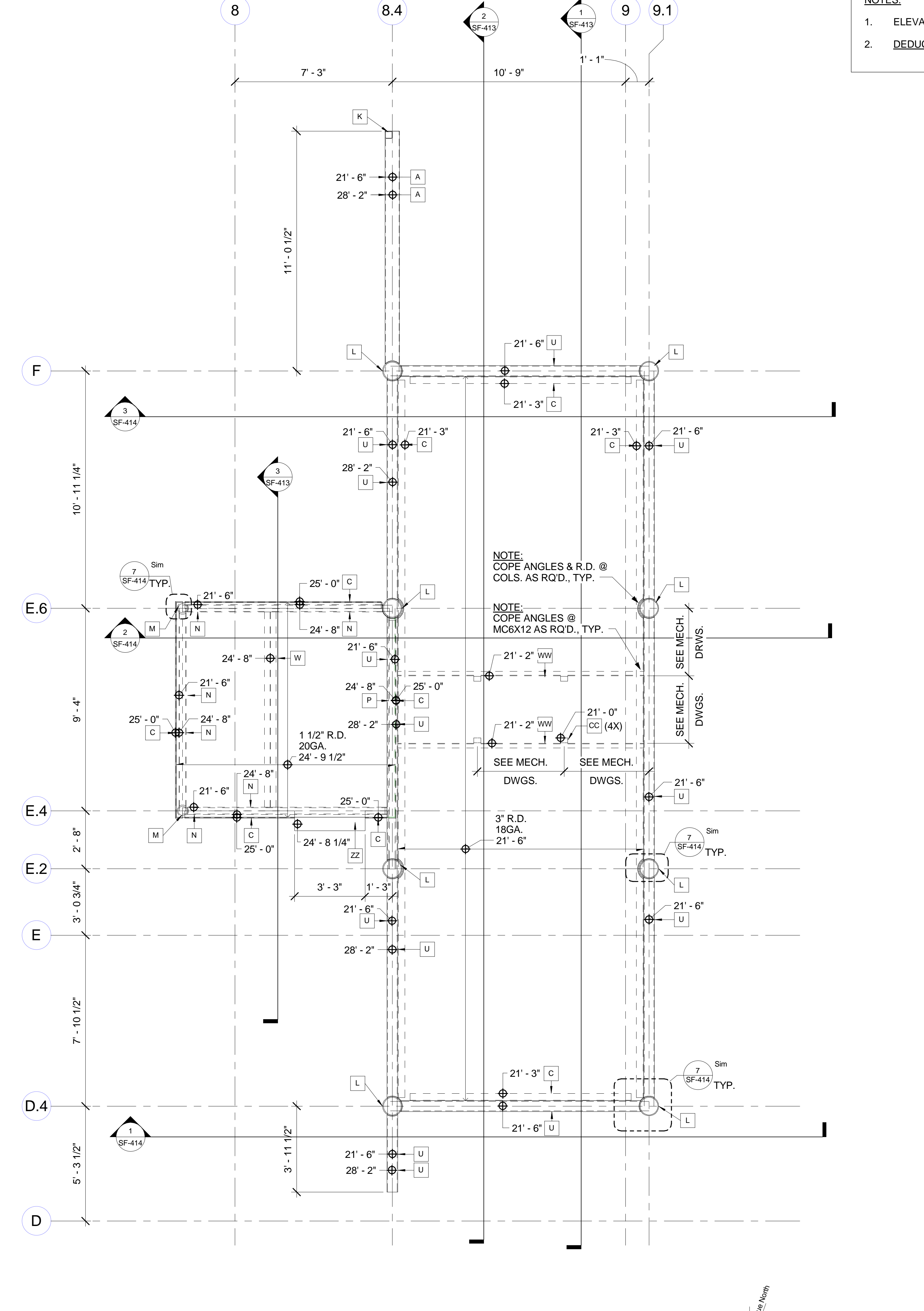


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one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one sixteenth inch = one foot

NOTES:
1. ELEVATIONS THIS SHEET ARE TOP OF STEEL, U.N.O.
2. DEDUCT ALTERNATE 8: OMIT EAST CANOPY, EMBEDS TO REMAIN.



1 ELEVATOR / STAIR 1 LEVEL 2 C.I.P. CONC. PLAN
3/8" = 1'-0"
SEE NOTE 2.
NOTE: SEE DRAWING 2/SF-411 FOR STEEL FRAMING.




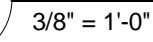
2 ELEVATOR / STAIR 1 ROOF FRAMING PLAN
3/8" = 1'-0"
SEE NOTE 2.

- LEGEND
- = REBAR
 - 1 = #5 @ 12" O.C. T&B
 - 2 = #4 @ 12" O.C. TEMP. REBAR
 - 3 = #4 @ 12" O.C. T & B
 - 4 = #4 NOSING BARS
 - 5 = #5 @ 12" O.C.
 - 6 = #6 @ 6" O.C.
 - 7 = 3/4" DIA. 6" STUDS @ 12" O.C.

STEEL FRAMING MEMBERS	
A	HSS 8x8x5/16
B	HSS 8x8x1/2
C	L 4x4x5/16
CC	L 3x3x5/16
D	L 6x4x5/16
E	HSS 4x4x5/16
F	HSS 20x8x1/2 (HORIZ.)
G	6" DIA. DBL EXTRA STRONG PIPE
H	HSS 16x8x3/8
J	6" DIA. EXTRA STRONG PIPE
K	HSS 4x4x1/4
L	HSS 10.75x0.500
M	HSS 6x0.500
N	HSS 8x4x5/16
P	HSS 8x4x1/2
Q	HSS 10x8x1/2
QQ	HSS 10x8x5/8
R	HSS 10x6x3/8
S	HSS 8x8x5/8
T	HSS 12x4x1/2
U	HSS 8x6x3/8
V	HSS 12x6x1/2
W	W 8x24 (HOIST BEAM)
WW	MCC 6X12
Y	HSS 12x8x1/2
Z	BENT PL 20"x10'-4"x3/8"
ZZ	FLAT PL 39"x11"x1/4"

FINAL SUBMISSION
Scale: As indicated

No.		Description	Date	CONSULTANTS Desman Associates 20 North Clark Street 4th Floor Chicago, Illinois 60602 312.263.8400		ARCHITECT/ ENGINEERS Westlake Reed Leskosky The Huntington Building 925 Euclid Avenue, Suite 1900 Cleveland, Ohio 44115-1407 216.522.1350	Drawing Title		Project Title		Project Number		<div>Office of Construction and Facilities Management</div> <div> Department of Veterans Affairs</div>
		FINAL SUBMISSION	9/24/2013				ELEVATOR/STAIR 1 FRAMING ENLARGED VIEWS - 2		VA Erie Parking Structure		11159.00		
											Building Number		
											Drawing Number		
											SF-412		
Revisions:			Date										



Department of
Veterans Affairs

1. SEE SF-411 & SF-412 FOR TOP OF STEEL ELEV.
2. FRAMING MEMBERS "BEHIND" ARE NOT KEYNOTED FOR CLARITY.

— = REBAR

- ① = #5 @ 12" O.C. T & B
- ② = #4 @ 12" O.C. TEMP. REBAR
- ③ = #4 @ 12" O.C. T & B
- ④ = #4 NOSING BARS
- ⑤ = #5 @ 12" O.C.
- ⑥ = #6 @ 6" O.C.
- ⑦ = 3/4" DIA. 6" STUDS @ 12" O.C.

STEEL FRAMING MEMBERS	
A	HSS 8x8x5/16
B	HSS 8x8x1/2
C	L 4x4x5/16
CC	L 3x3x5/16
D	L 6x4x5/16
E	HSS 4x4x5/16
F	HSS 20x8x1/2 (HORIZ.)
G	6" DIA. DBL EXTRA STRONG PIPE
H	HSS1 16x8x3/8
J	6" DIA. EXTRA STRONG PIPE
K	HSS 4x4x1/4
L	HSS 10.750x0.500
M	HSS 6x0.500
N	HSS 8x4x5/16
P	HSS 8x4x1/2
Q	HSS 10x8x1/2
QQ	HSS 10x8x5/8
R	HSS 10x6x3/8
S	HSS 8x8x5/8
T	HSS 12x4x1/2
U	HSS 8x6x3/8
V	HSS 12x6x1/2
W	W 8x24 (HOIST BEAM)
WW	MCC 6X12
Y	HSS 12x8x1/2
Z	BENT PL 20"x10"-4"x3/8"
ZZ	FLAT PL 39"x11"x1/4"

Scale: As indicated

2 ELEVATOR / STAIR 1 FRAMING SECTION
3/8" = 1'-0"

1 STAIR 1 FRAMING SECTION 3
3/8" = 1'-0"

No.	Description	Date
	FINAL SUBMISSION	9/24/2013
Revisions:		Date

CONSULTANTS
Desman Associates

20 North Clark Street
4th Floor
Chicago, Illinois
60602
312.263.8400

3 STAIR 1 FRAMING SECTION 4
3/8" = 1'-0"

6 **DETAIL**
1" = 1'-0"

SEE NOTE 3.

TYP. HSS12X4 TO
HSS8X8 DETAIL

8

1" = 1'-0"

5 **DETAIL**
1" = 1'-0"

4 **DETAIL**
1" = 1'-0"

7 TYPICAL BEAM COLUMN CONNECTION

NOTE:

1. SEE SF-411 & SF-412 FOR TOP OF STEEL ELEVATIONS.
2. FRAMING MEMBERS "BEHIND" ARE NOTE KEYNOTED FOR CLARITY.
3. DEDUCT ALTERNATE 8: OMIT EAST CANOPY. STEEL MEMBERS TO TERMINATE @ EAST FACE OF "T" ARE DESIGNATED " * * * ". STEEL MEMBERS TO BE OMITTED ARE DESIGNATED " * * * ".

LEGEND

- = REBAR
- ① = #5 @ 12" O.C. T&B
- ② = #4 @ 12" O.C. TEMP. REBAR
- ③ = #4 @ 12" O.C. T & B
- ④ = #4 NOSING BARS
- ⑤ = #5 @ 12" O.C.
- ⑥ = #6 @ 6" O.C.
- ⑦ = 3/4" DIA. 6" STUDS @ 12" O.C.

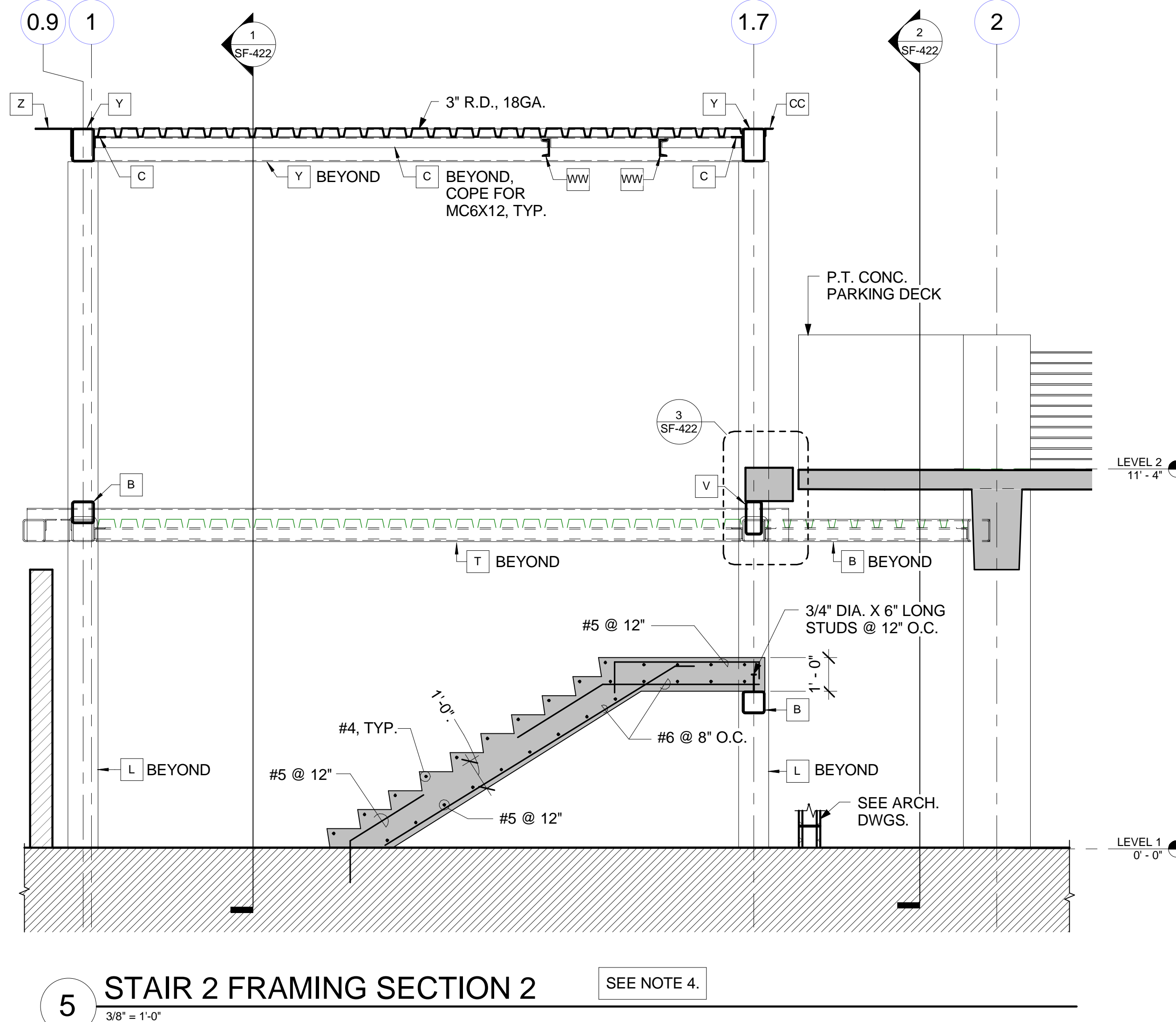
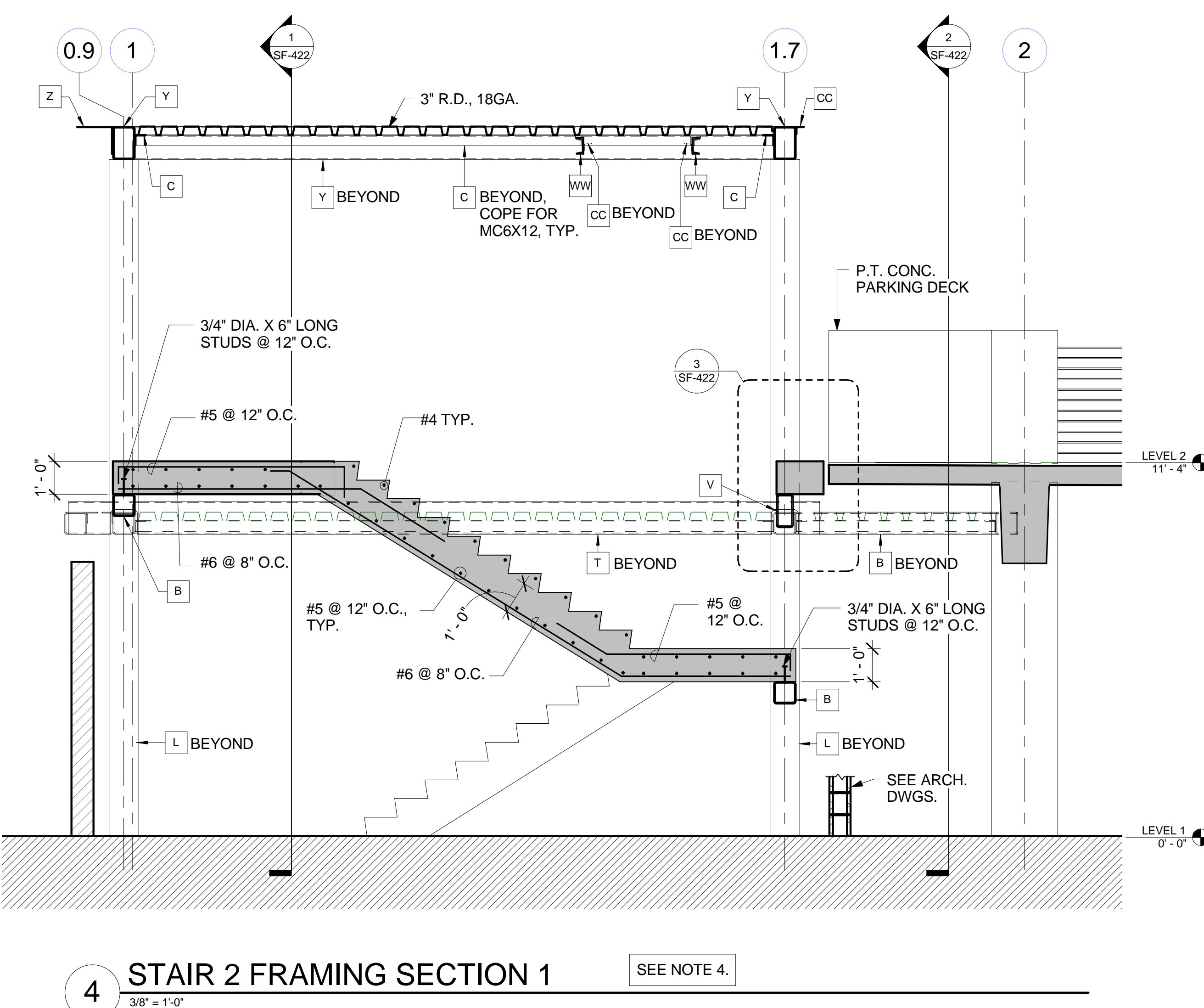
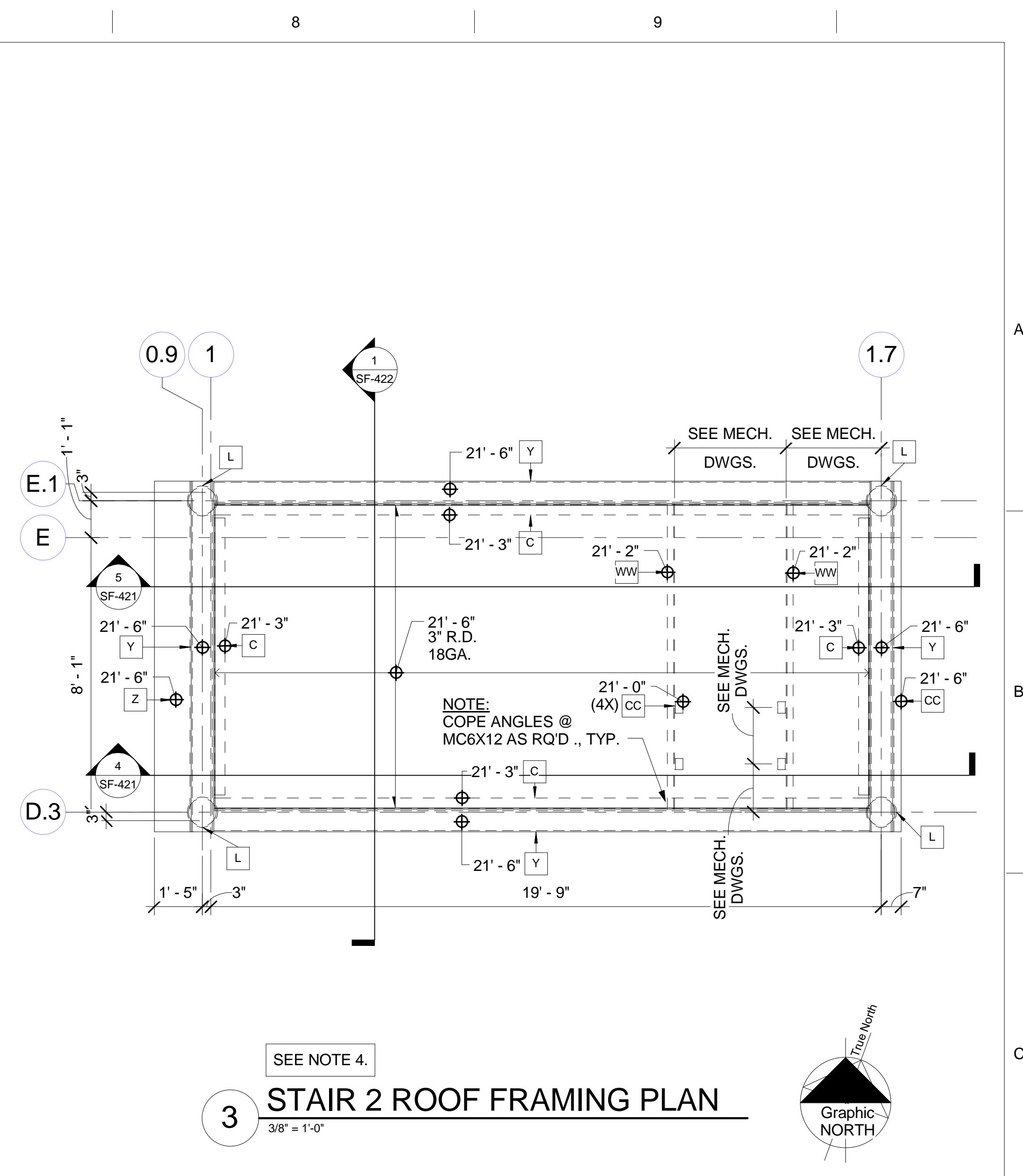
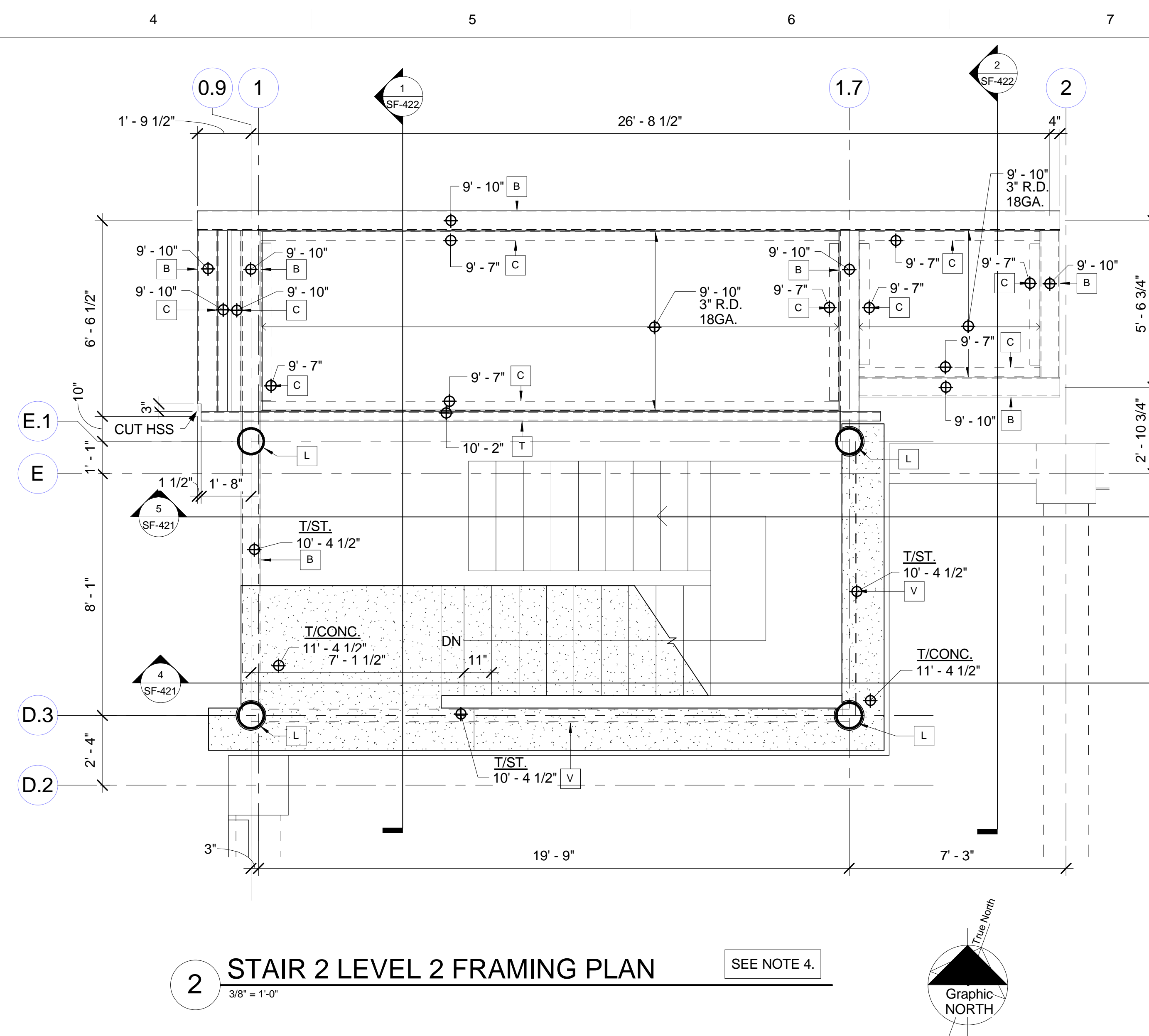
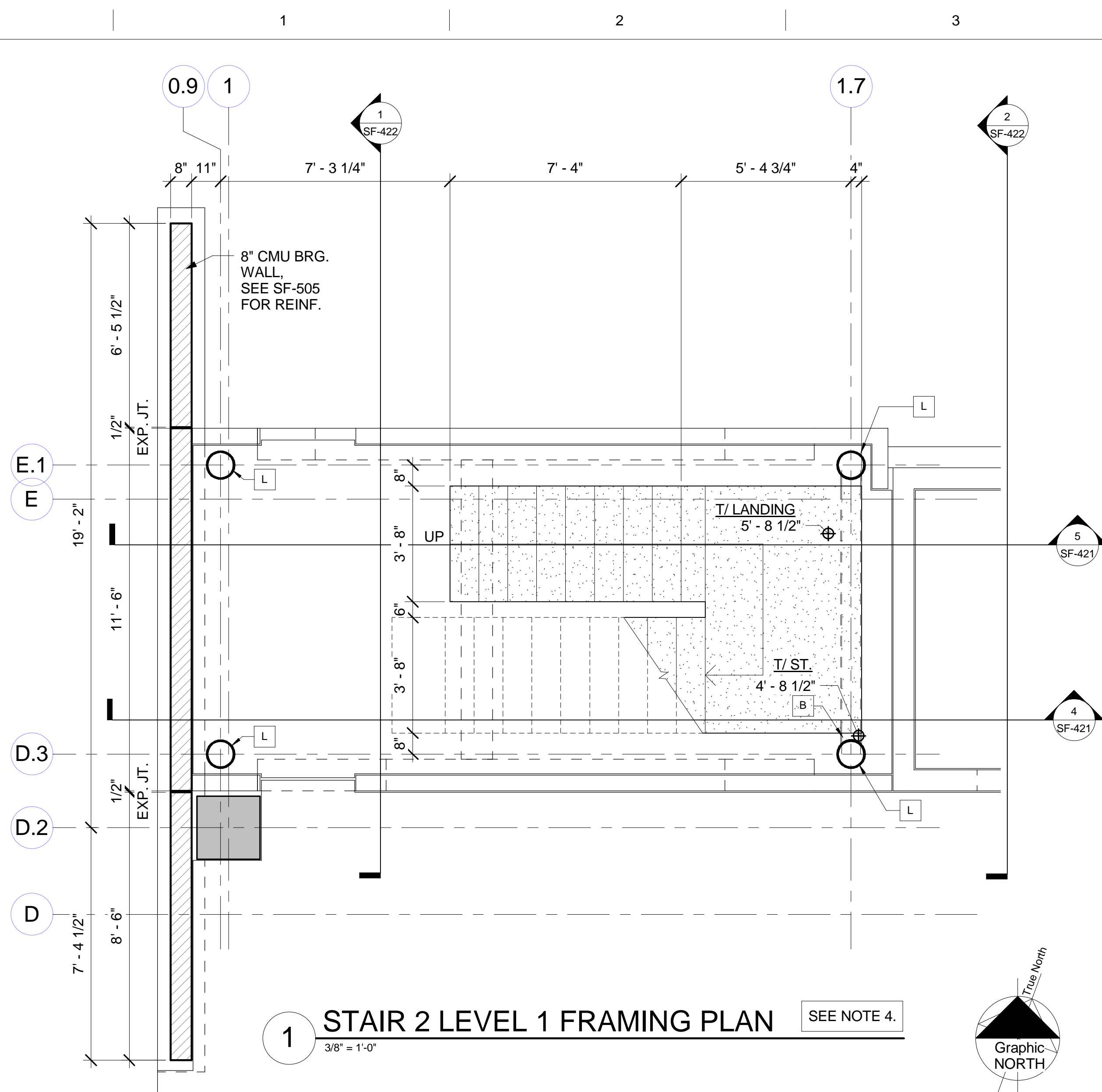
STEEL FRAMING MEMBERS	
A	HSS 8x8x5/16
B	HSS 8x8x1/2
C	L 4x4x5/16
CC	L 3x3x5/16
D	L 6x4x5/16
E	HSS 4x4x5/16
F	HSS 20x8x1/2 (HORIZ.)
G	6" DIA. DBL EXTRA STRONG PIPE
H	HSS1 16x8x3/8
J	6" DIA. EXTRA STRONG PIPE
K	HSS 4x4x1/4
L	HSS 10.75x0x0.500
M	HSS 6x0.500
N	HSS 8x4x5/16
P	HSS 8x4x1/2
Q	HSS 10x8x1/2
QQ	HSS 10x8x5/8
R	HSS 10x6x3/8
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U	HSS 8x6x3/8
V	HSS 12x6x1/2
W	W 8x24 (HOIST BEAM)
WW	MCC 6X12
Y	HSS 12x8x1/2
Z	BENT PL 20"x10"-4"x3/8"
ZZ	FLAT PL 39"x11"x1/4"

FINAL SUBMISSION

Male:	As indicated
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and Facilities
Management**





NOTES:

1. SEE SB-SERIES DRAWINGS FOR STEEL COLUMN BASE PLATE INFORMATION.
2. ELEVATIONS THIS SHEET ARE TOP OF STEEL, U.N.O.
3. FOR STAIR 2 STEEL TO STEEL CONNECTIONS PROVIDE CONNECTIONS SIMILAR TO STAIR 1.
4. DEDUCT ALTERNATE 10: OMIT STAIR 2 & ASSOCIATED CANOPY & ENCLOSURE STRUCTURE. ADD TYP. CRASH WALL @ LEVEL 2 E.O.S., SEE DET. 15 & 16/SF-503.

STEEL FRAMING MEMBERS	
A	HSS 8x8x5/16
B	HSS 8x8x1/2
C	L 4x4x5/16
CC	L 3x3x5/16
D	L 6x4x5/16
E	HSS 4x4x5/16
F	HSS 20x8x1/2 (HORIZ.)
G	6" DIA. DBL EXTRA STRONG PIPE
H	HSS116x8x3/8
J	6" DIA. EXTRA STRONG PIPE
K	HSS 4x4x1/4
L	HSS 10.75x0.500
M	HSS 6x0.500
N	HSS 8x4x5/16
P	HSS 8x4x1/2
Q	HSS 10x8x1/2
QQ	HSS 10x8x5/8
R	HSS 10x6x3/8
S	HSS 8x8x5/8
T	HSS 12x4x1/2
U	HSS 8x6x3/8
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WW	MCC 6X12
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Z	BENT PL 20"x10"-4"x3/8"
ZZ	FLAT PL 39"x11"x1/4"

FINAL SUBMISSION

Scale: $3/8" = 1'-0"$

No.	Description	Date
	FINAL SUBMISSION	9/24/2013
Revisions:		Date

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Westlake Reed Leskosky

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Cleveland, Ohio
44115-1407
216.522.1350

Drawing Title
**STAIR 2 FRAMING ENLARGED
VIEWS - 1**

Approved: J.H.

Project Title	VA Erie Parking Structure
---------------	---------------------------

	Location
	Eric, DA

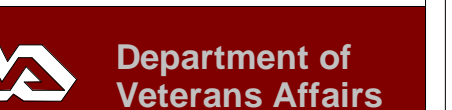
Project Number

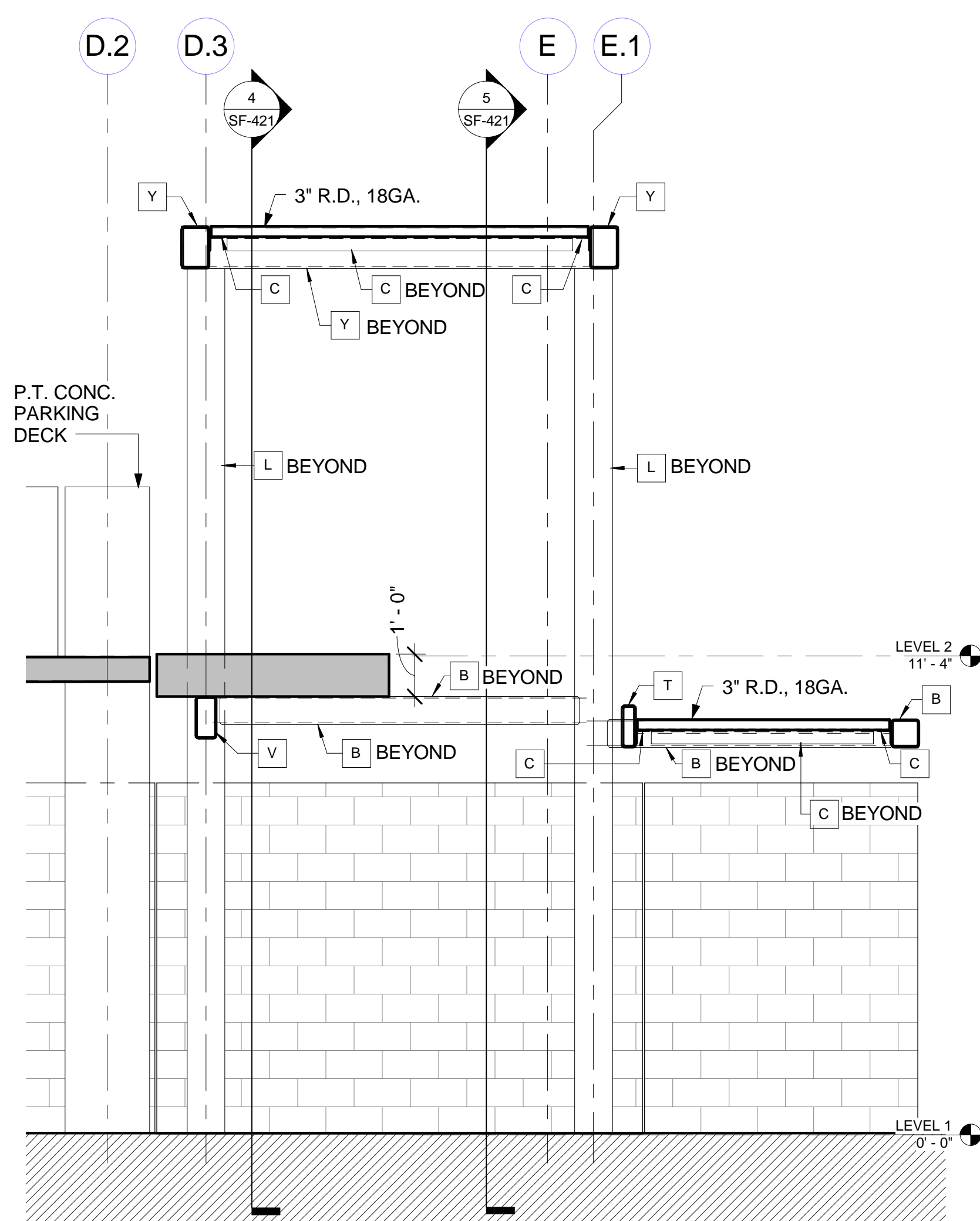
Building Number

Drawing Number

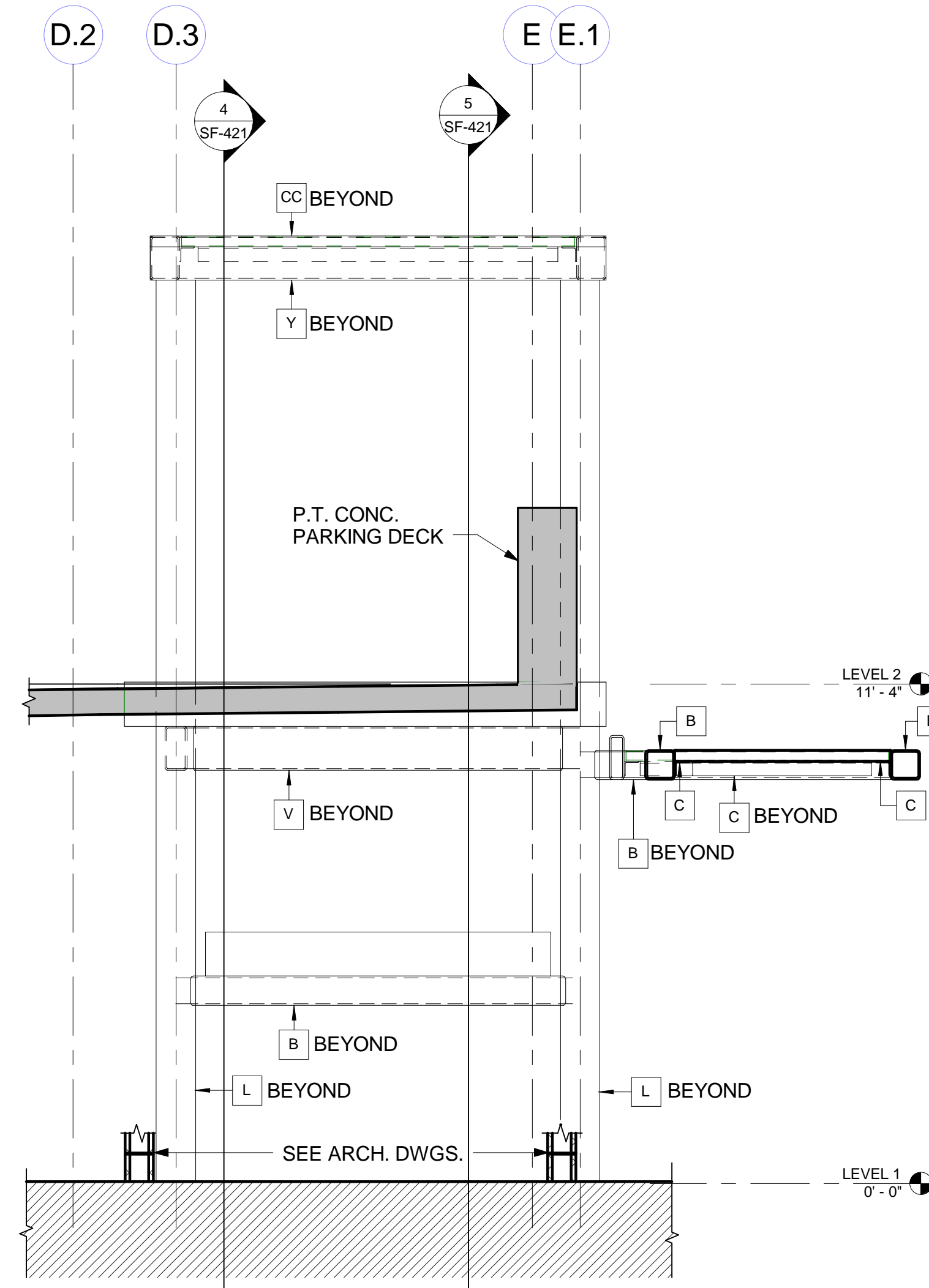
SF-421

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Management**

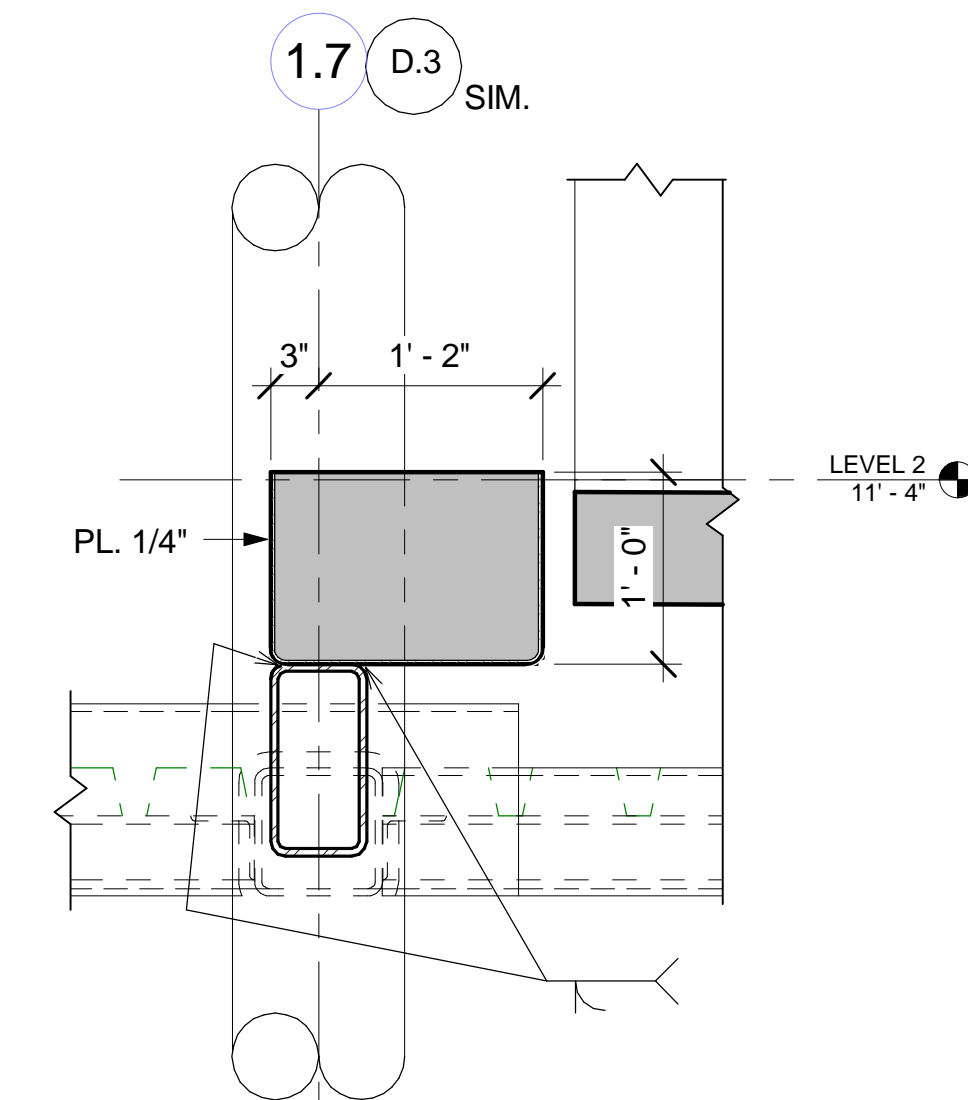




1 STAIR 2 FRAMING SECTION 3 SEE NOTE 3.
3/8" = 1'-0"



2 STAIR 2 FRAMING SECTION 4



SEE NOTE 3.

3 STAIR 2 CURB DETAIL

1" = 1'-0"

- NOTE:**
1. ELEVATIONS THIS SHEET ARE TOP OF STEEL, U.N.O.
 2. FRAMING MEMBERS "BEHIND" ARE NOTE KEYNOTED FOR CLARITY.
 3. DEDUCT ALTERNATE 10; OMIT STAIR 2 & ASSOCIATED CANOPY & ENCLOSURE STRUCTURE. ADD TYP. CRASH WALL @ LEVEL 2 E.O.S., SEE DET. 15 & 16/SF-503.

STEEL FRAMING MEMBERS	
A	HSS 8x8x5/16
B	HSS 8x8x1/2
C	L 4x4x5/16
CC	L 3x3x5/16
D	L 6x4x5/16
E	HSS 4x4x5/16
F	HSS 20x8x1/2 (HORIZ.)
G	6" DIA. DBL EXTRA STRONG PIPE
H	HSS1 16x8x3/8
J	6" DIA. EXTRA STRONG PIPE
K	HSS 4x4x1/4
L	HSS 10.750x0.500
M	HSS 6x0.500
N	HSS 8x4x5/16
P	HSS 8x4x1/2
Q	HSS 10x8x1/2
QQ	HSS 10x8x5/8
R	HSS 10x6x3/8
S	HSS 8x8x5/8
T	HSS 12x4x1/2
U	HSS 8x6x3/8
V	HSS 12x6x1/2
W	W 8x24 (HOIST BEAM)
WW	MCC 6x12
Y	HSS 12x8x1/2
Z	BENT PL 20"x10"-4"x3/8"
ZZ	FLAT PL 39"x11"x1/4"

FINAL SUBMISSION

Scale: As indicated

No.	Description	Date
	FINAL SUBMISSION	9/24/2013
Revisions:		Date

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20 North Clark Street
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312.263.8400

ARCHITECT/ ENGINEERS
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The Huntington Building
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Cleveland, Ohio
44115-1407
216.522.1350

Drawing Title
**STAIR 2 ENLARGED FRAMING
VIEWS - 2**

Approved: J.H.

Project Title	VA Erie Parking Structure
---------------	---------------------------

	Location Erie, PA
--	----------------------

Date
9/19/2013
10:49:55 AM

Checked
B.I.

Drawn
D.R.W.

Project Number

11159.00

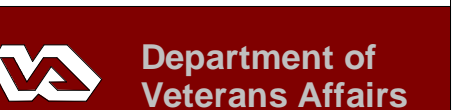
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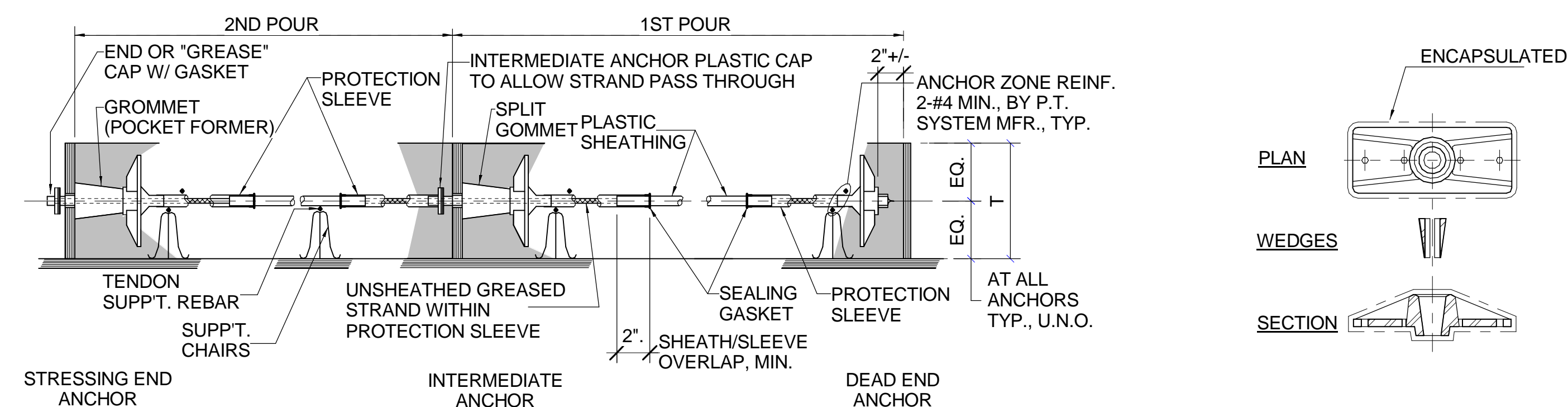
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SF-422

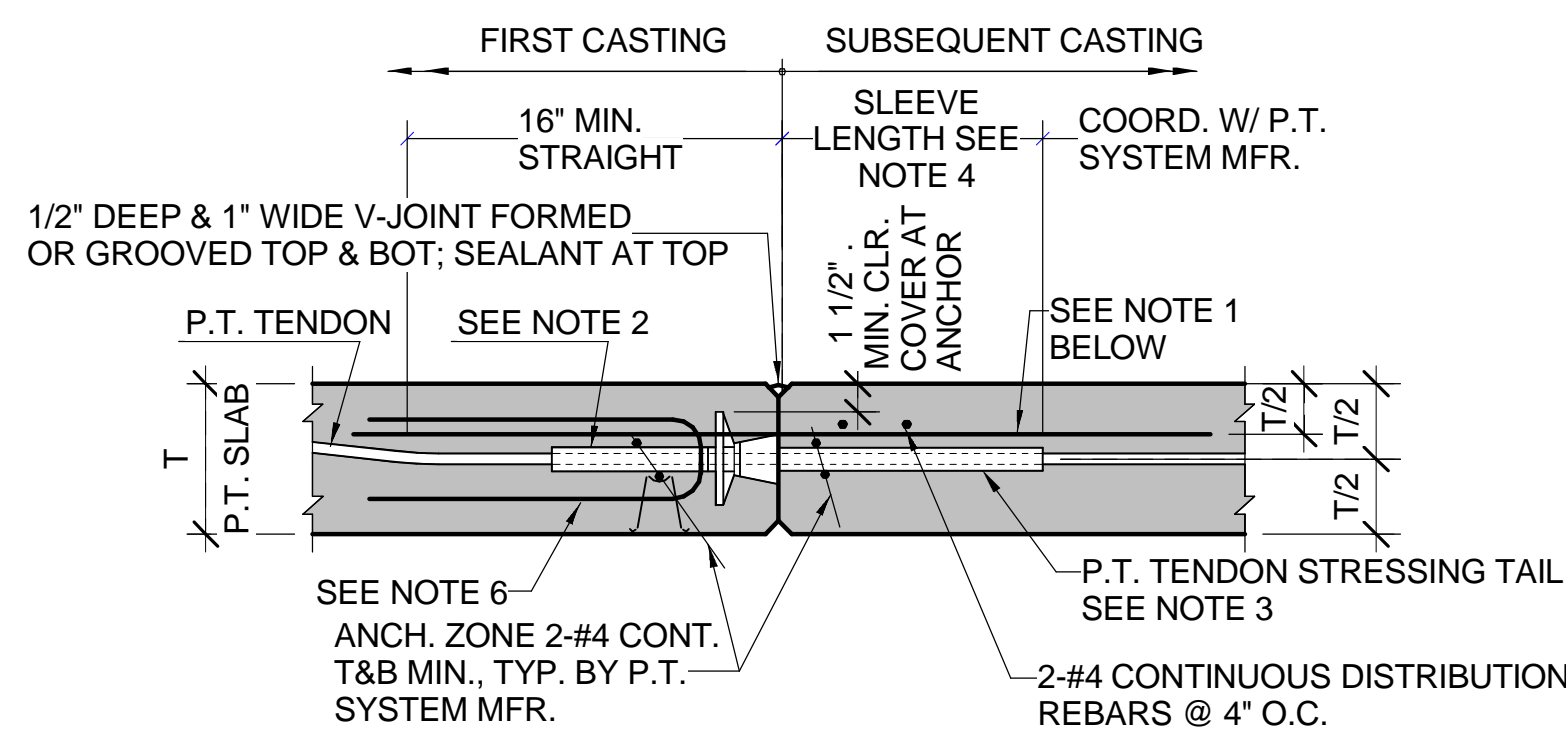
**Office of
Construction
and Facilities
Management**



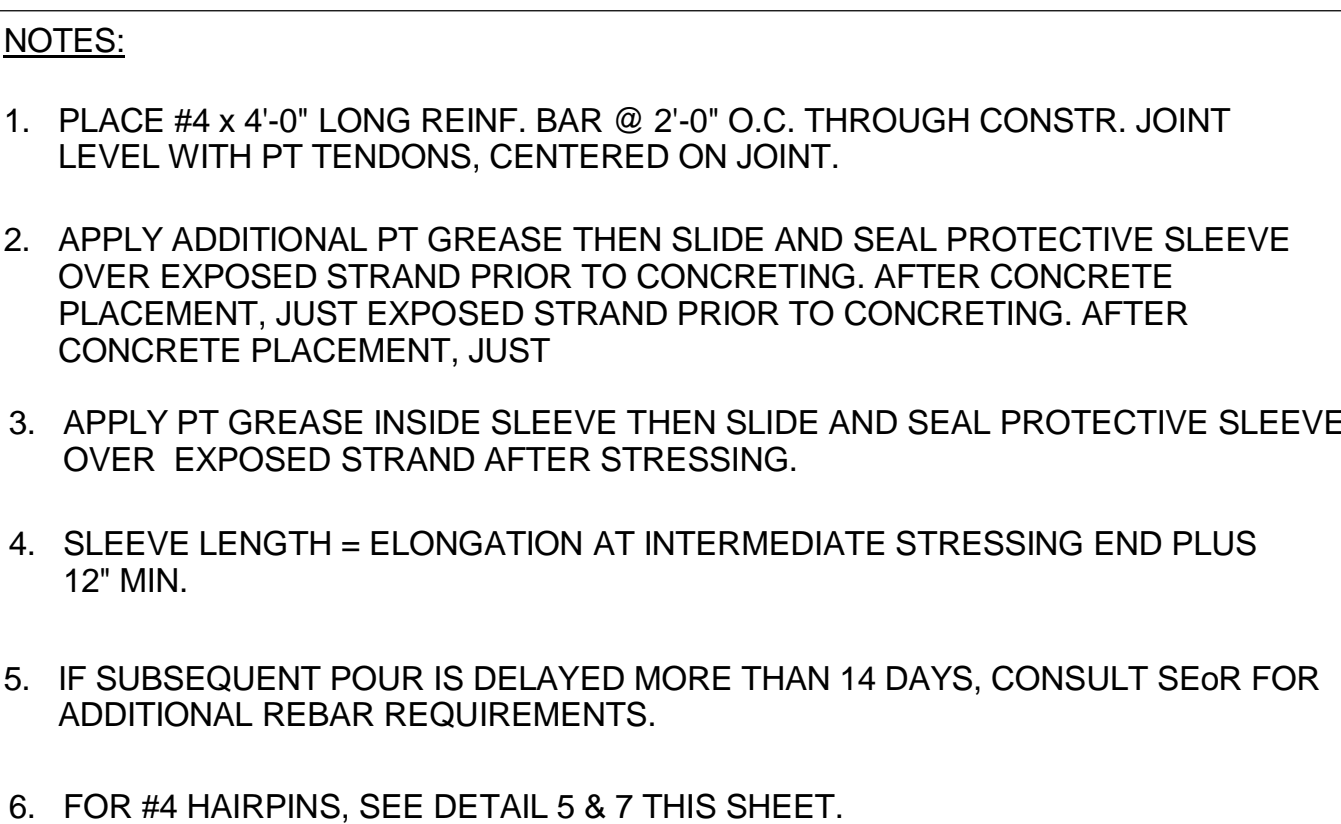


#	ASSEMBLY NOTES
1.	LOCATE ANCHOR AT BULKHEAD PER PROJECT PLANS.
2.	FOR STRESSING END TENDONS: INSTALL GROMMET FLUSH BETWEEN BULKHEAD AND ANCHOR FOR TIGHT SEAL.
3.	APPLY ADDITIONAL PUT GR-GEASE, THEN SLIDE PROTECTION SLEEVE TIGHT AGAINST TENDON, LEAVE NO BARE STRAND EXPOSED. TAPE NECESSARY.
4.	AFTER CONCRETE PLACEMENT, AT TIME OF STRESSING, REMOVE GROMMET AND INSERT WEDGES.
5.	AFTER STRESSING, CUT STRAND TO WITHIN 1/8" OF END CAP. GR-GEASE END CAP AND TIGHT TIGHT AGAINST STRAND.
6.	PATCH STRESSING POCKET PER PROJECT REQUIREMENTS.

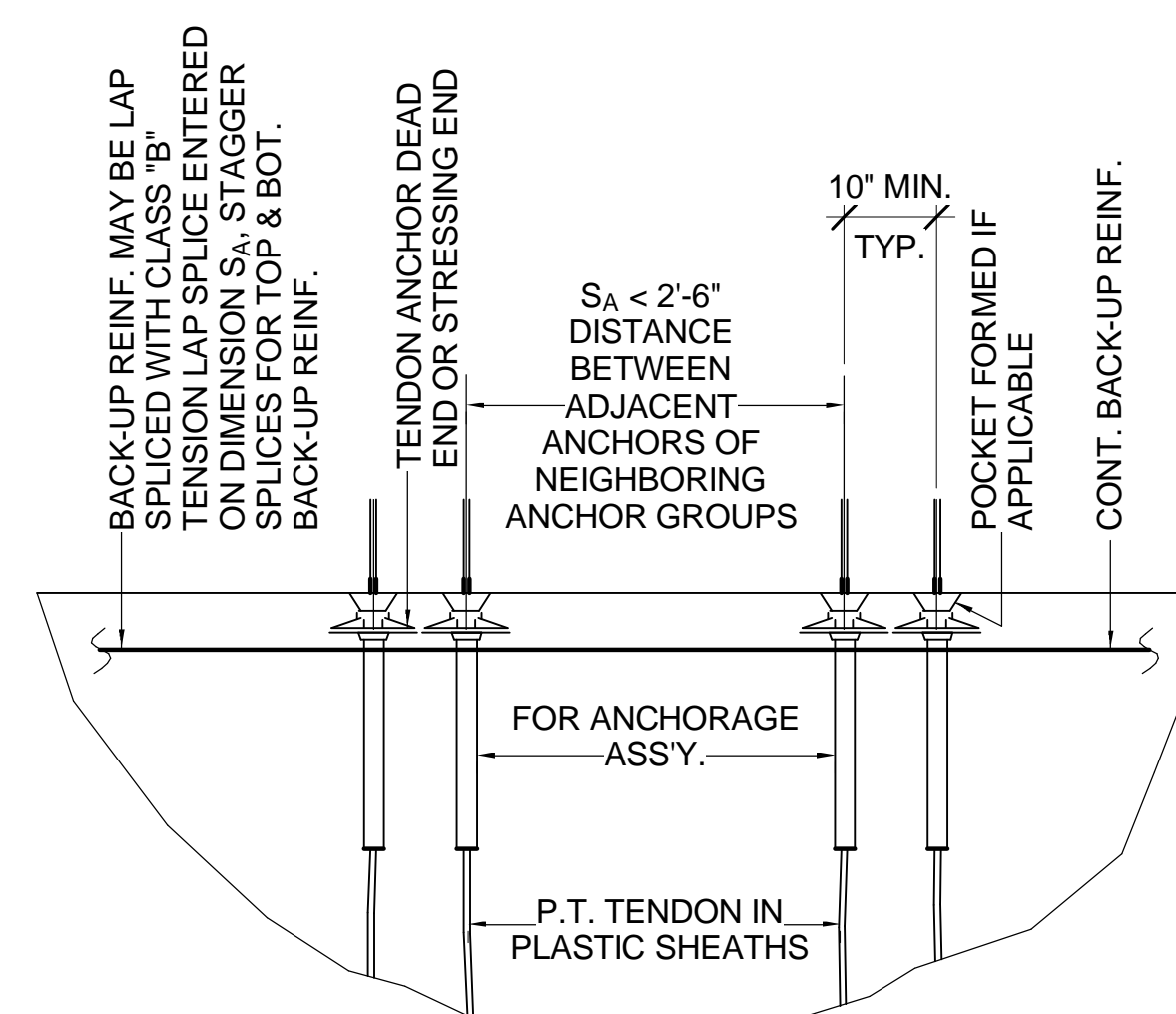
TYP. MONOSTRAND ANCHOR CASTING



7 TYP. STRESSING END ANCHOR DETAIL



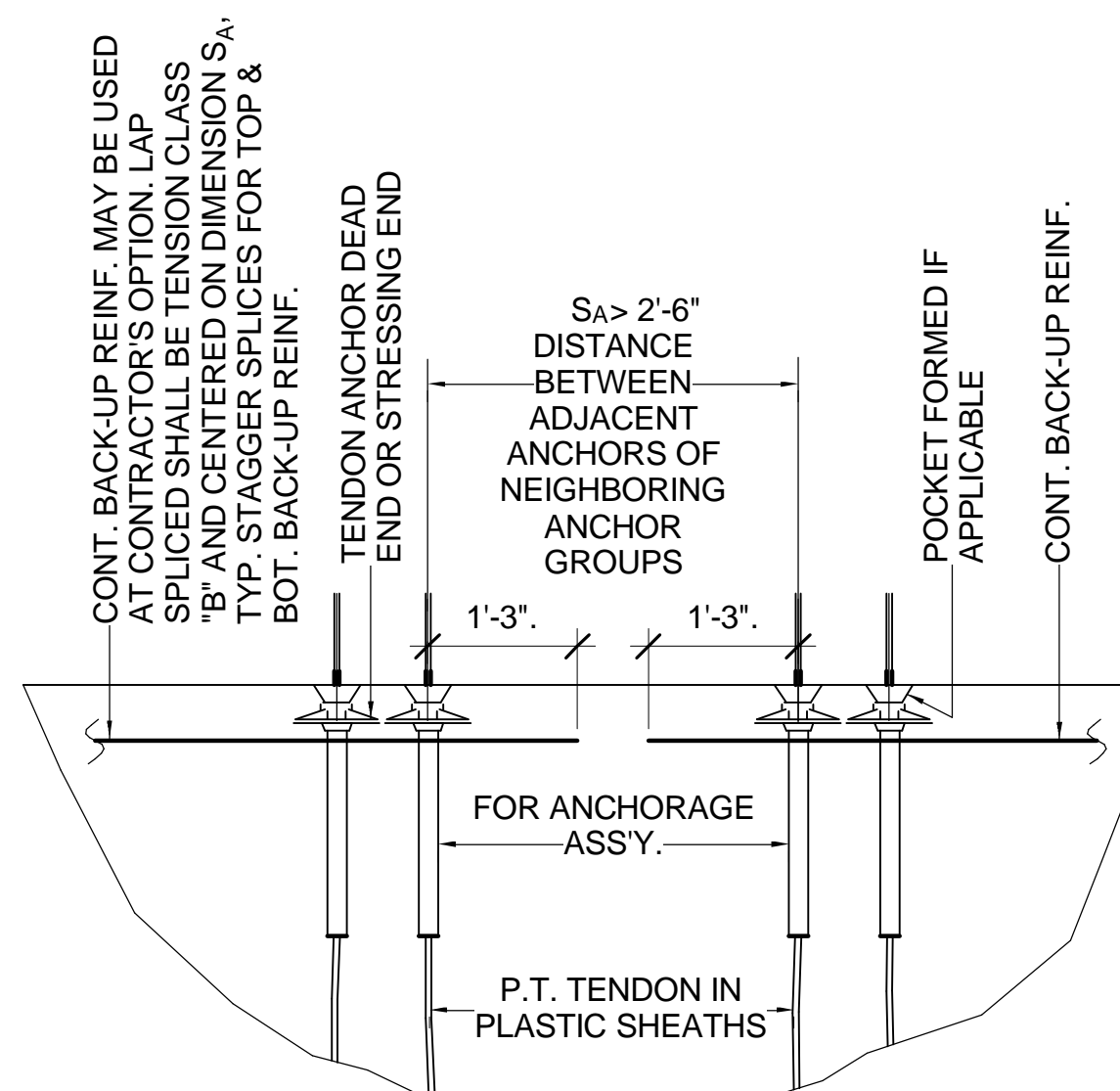
CONSTRUCTION JOINT WITH INTERMEDIATE STRESSING

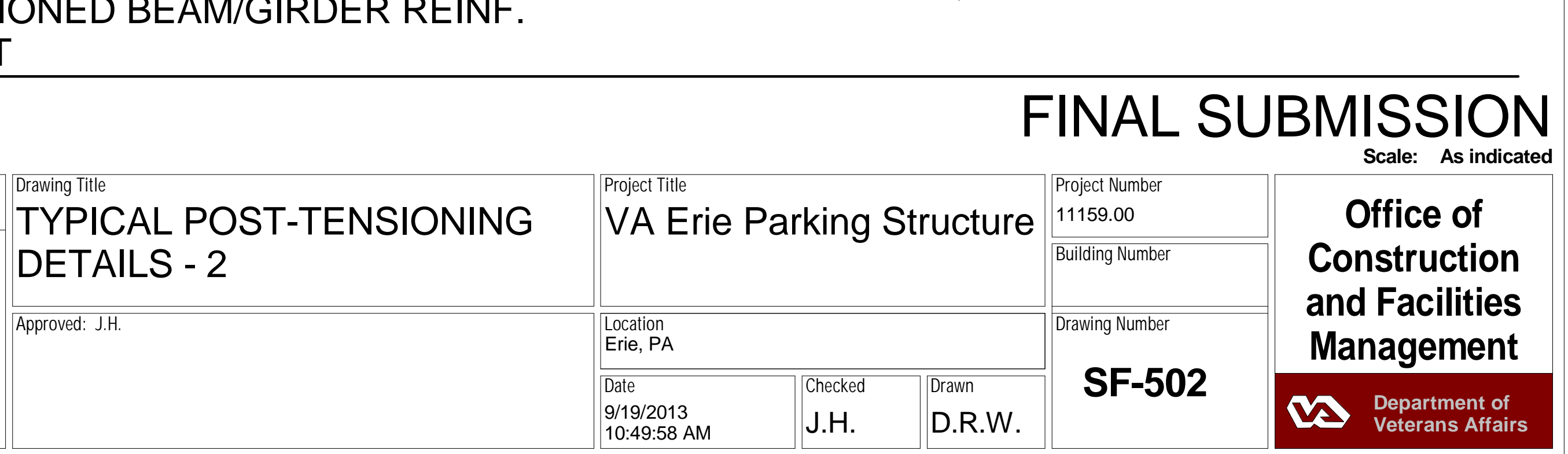
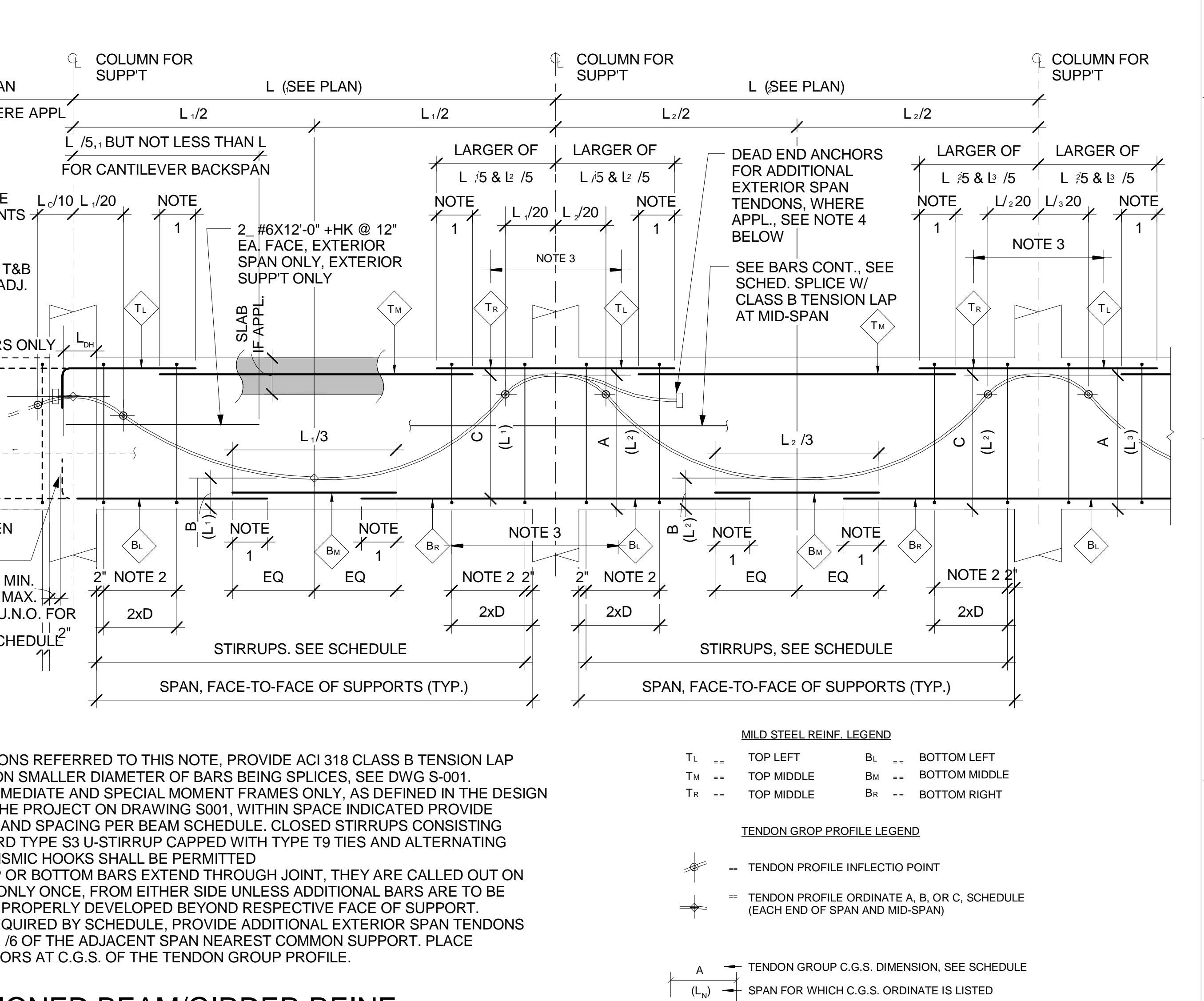
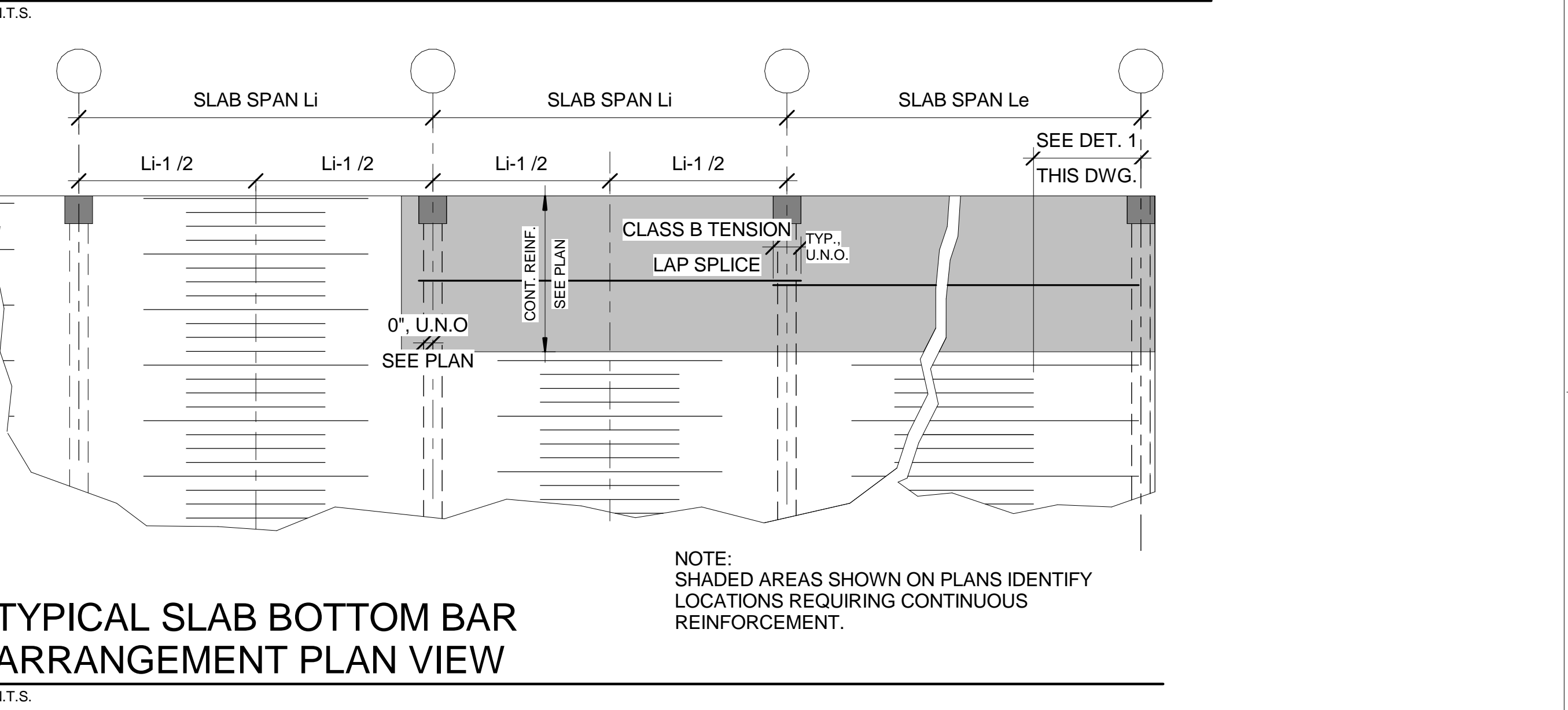
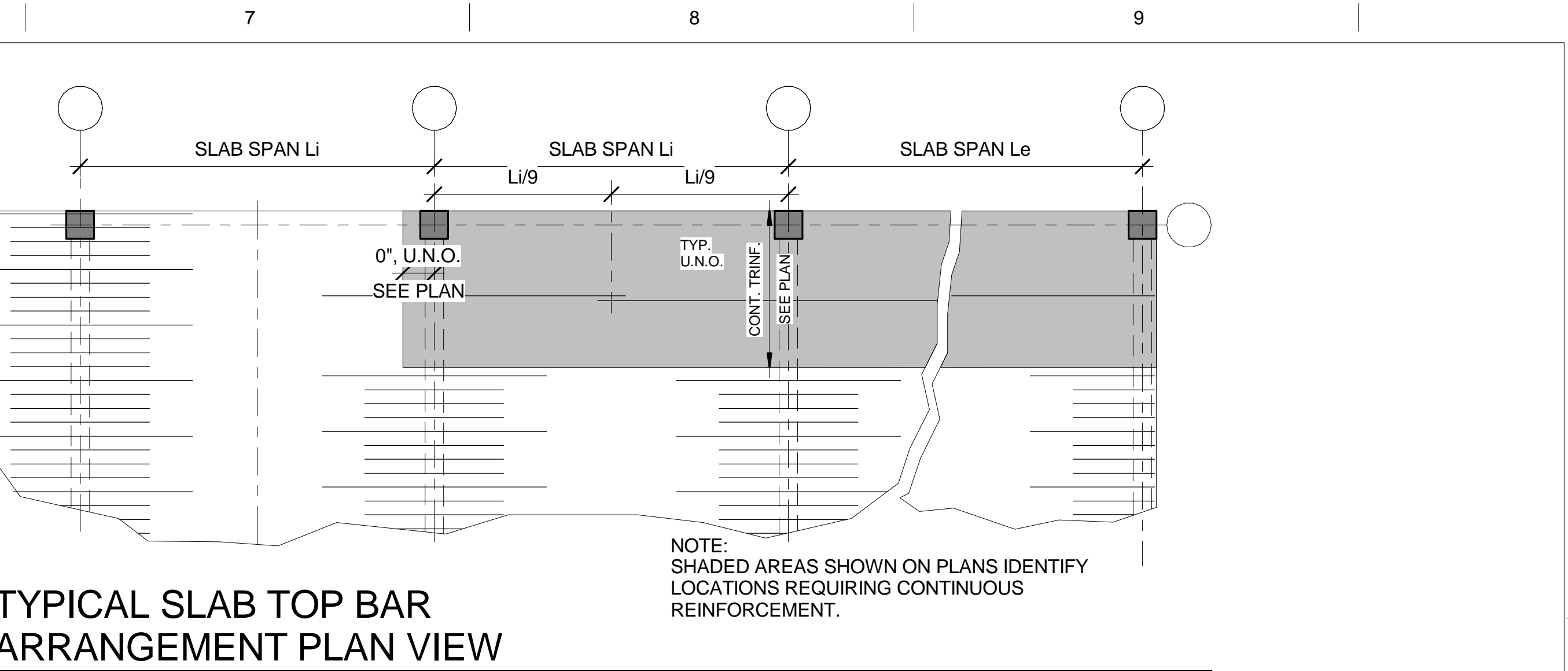
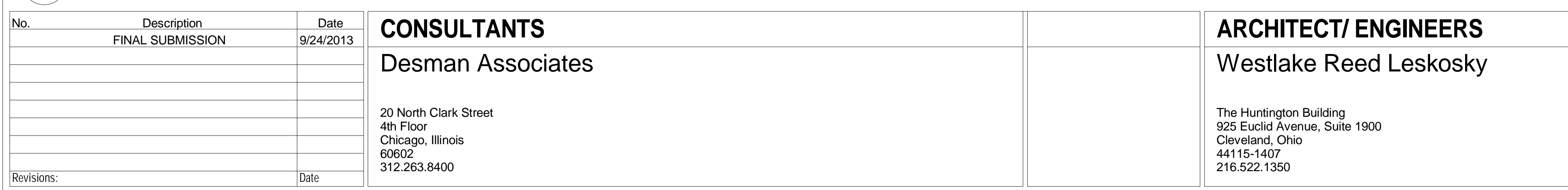
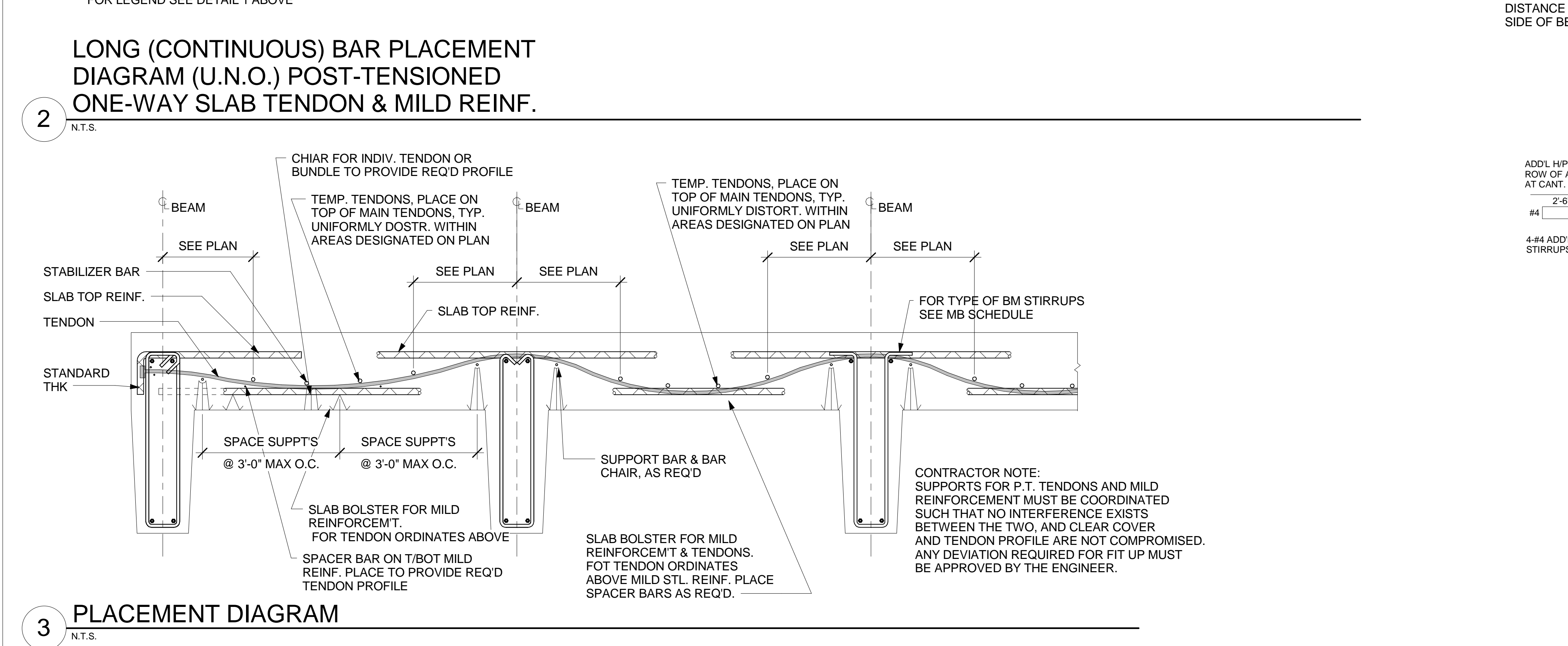
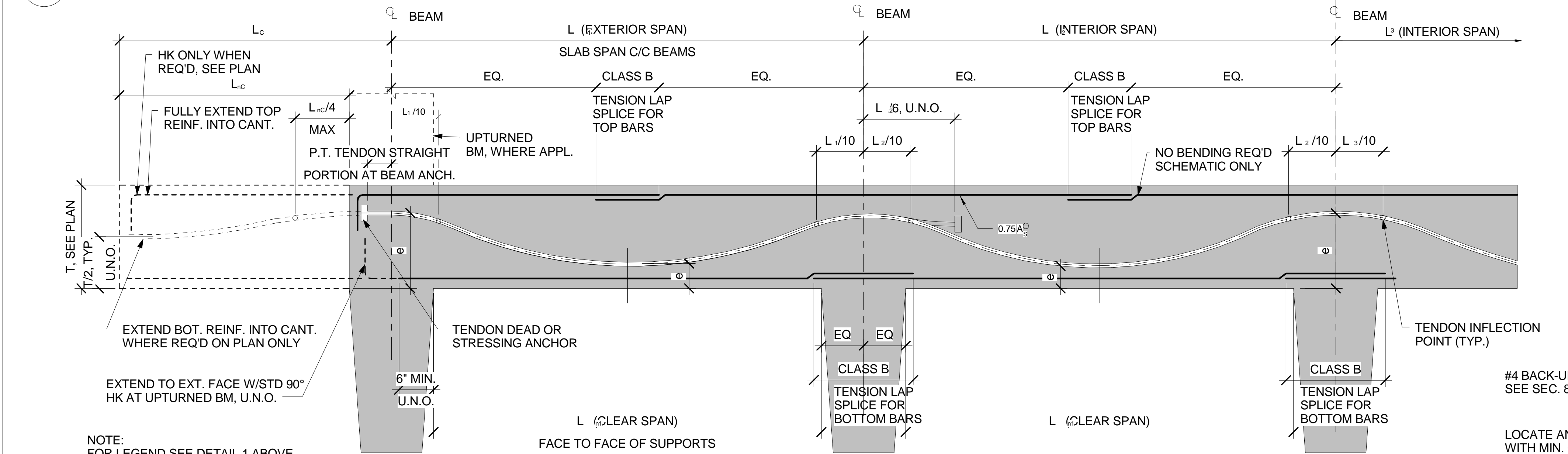
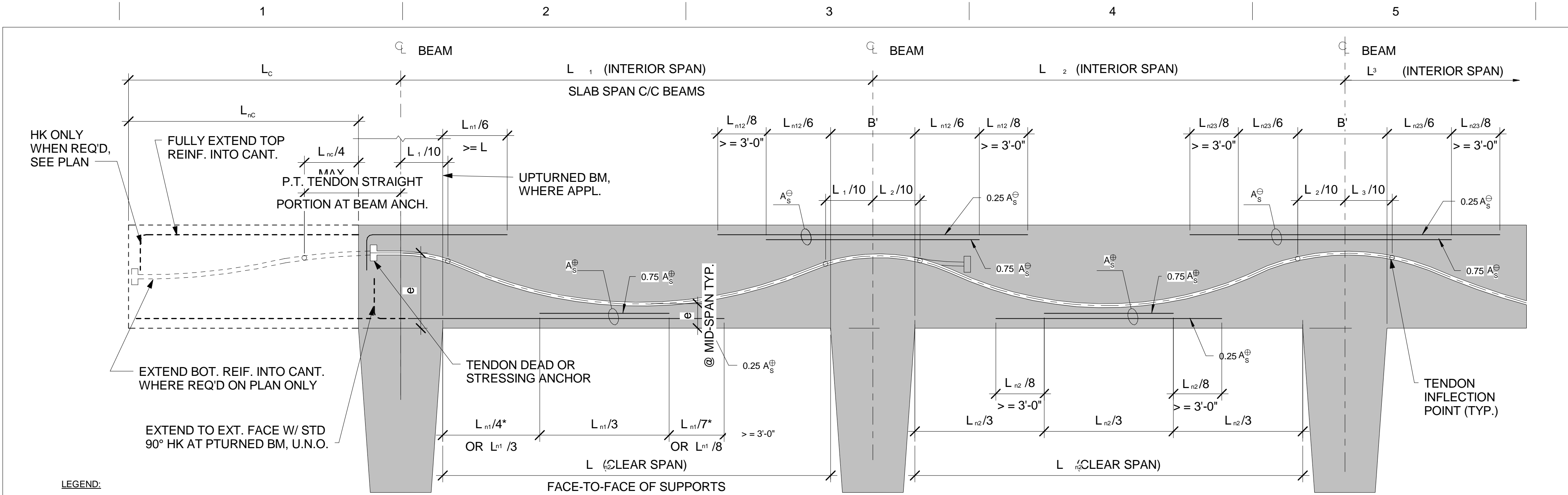


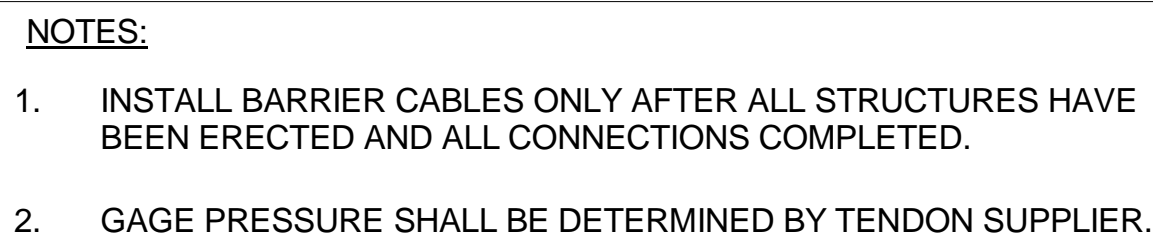
TYP. P.T. SLAB ANCHORAGE
PLAN DETAIL AT CORNERS



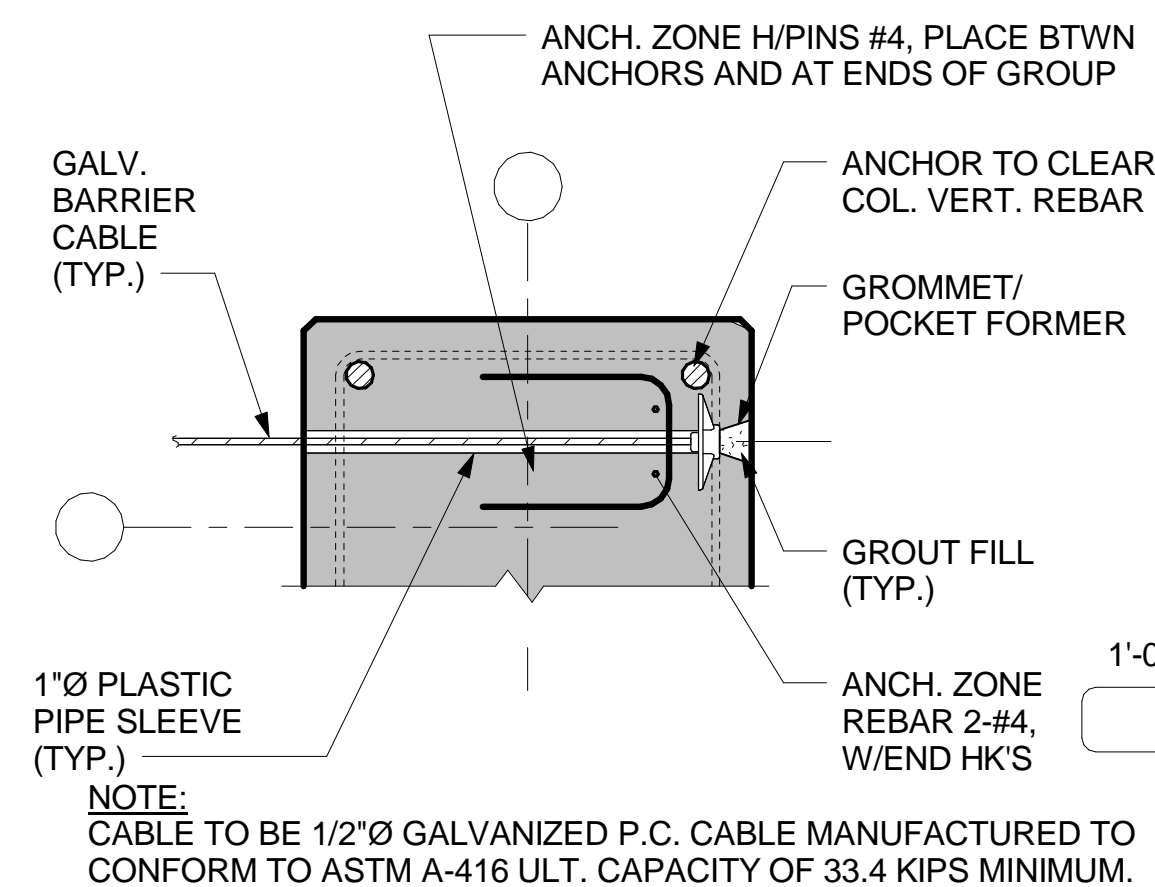
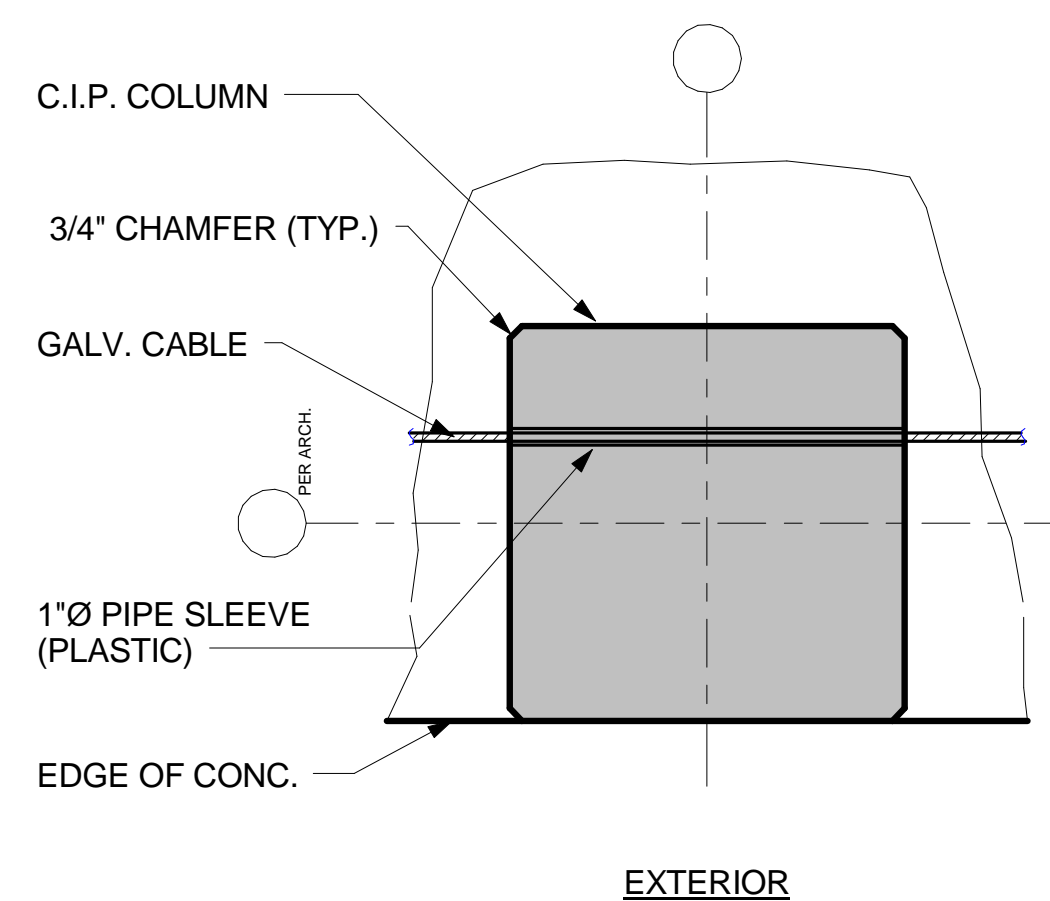
TYP. P.T. SLAB ANCHORAGE PLAN DETAIL WITH WIDE SPACING OF ANCHORS

 Department of
Veterans Affairs

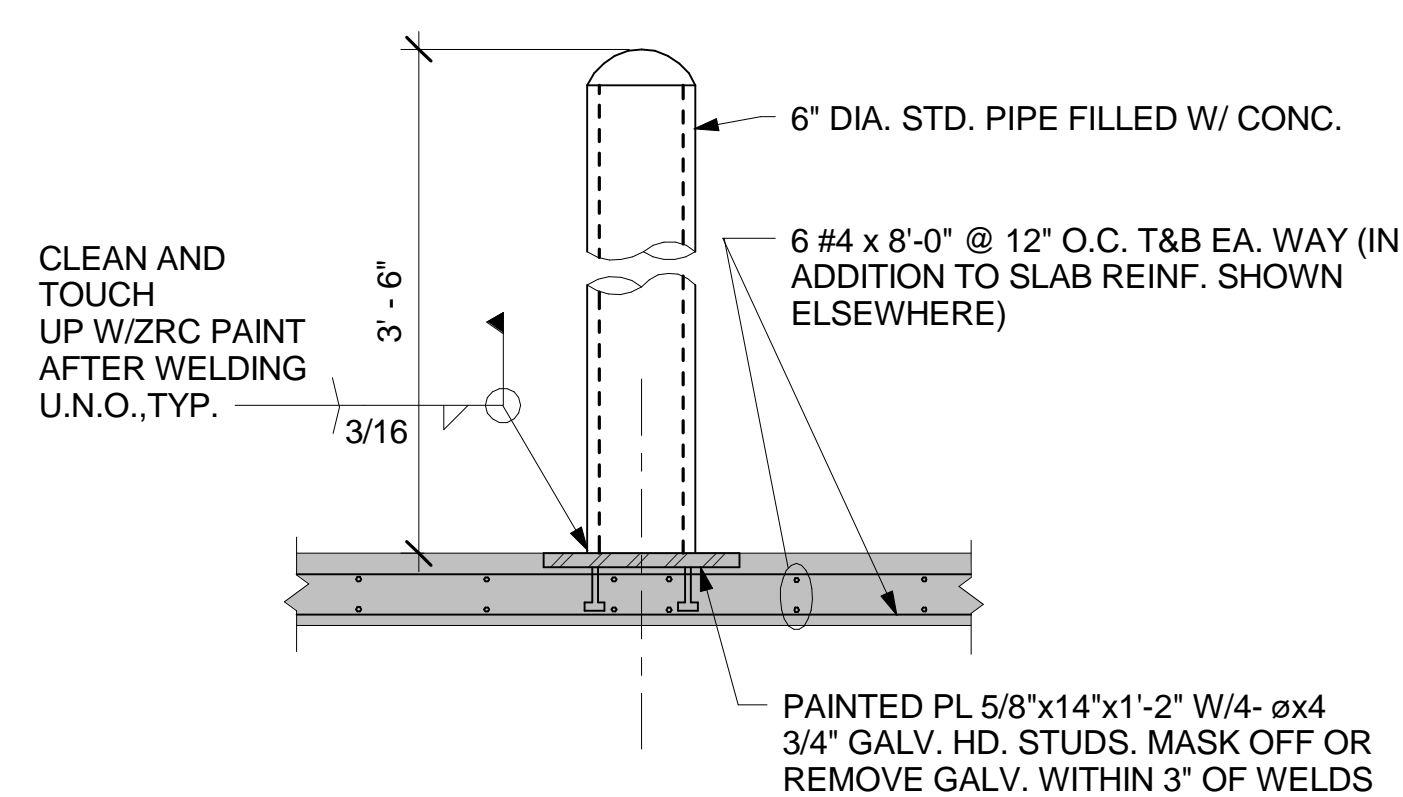




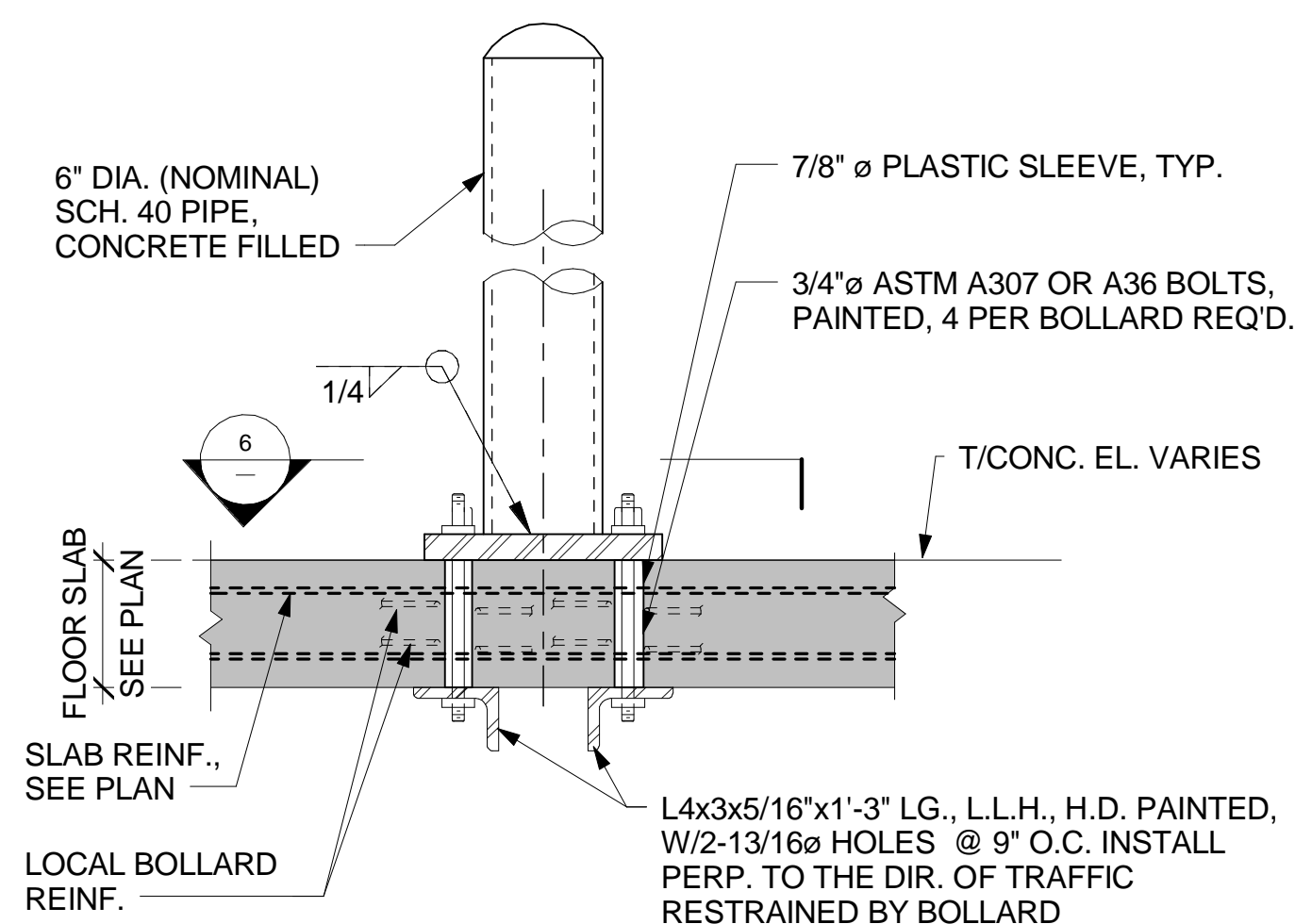
1. PLACE CABLES THROUGH COLUMNS AND ANCHORS. INSERT WEDGES.
2. BACK-STRESS THE TENDONS AT "DEAD END" COLUMN TO SEAT WEDGES. STRESS CABLES TO 25 KIPS FORCE
3. STRESS CABLES AT PULLING END TO 4,000 POUNDS
4. BACK-STRESS THE TENDONS AT "PULLING END" COLUMN ON THE FACE OPPOSITE THE INITIAL STRESSING FACE. TO SEAT WEDGES NOSE OF THE JACK SHALL BEAR ON A SITUATED STEEL PLATE, NOT ON THE CONCRETE.
5. SPRAY RAM GRIPPER MARKS AND ANCHOR WEDGES MARKS WITH ZRC, GALVANOX OR EQUIVALENT.
6. MECHANICALLY TERMINATE EXCESS LENGTH OF CABLES AT END ANCHORAGES. APPLY 2 COATS OF ZRC, GALVANOX OR EQUIVALENT, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
7. FILL POCKETS IN COLUMNS WITH NON-SHRINK, NON-METALLIC 5,000 PSI GROUT



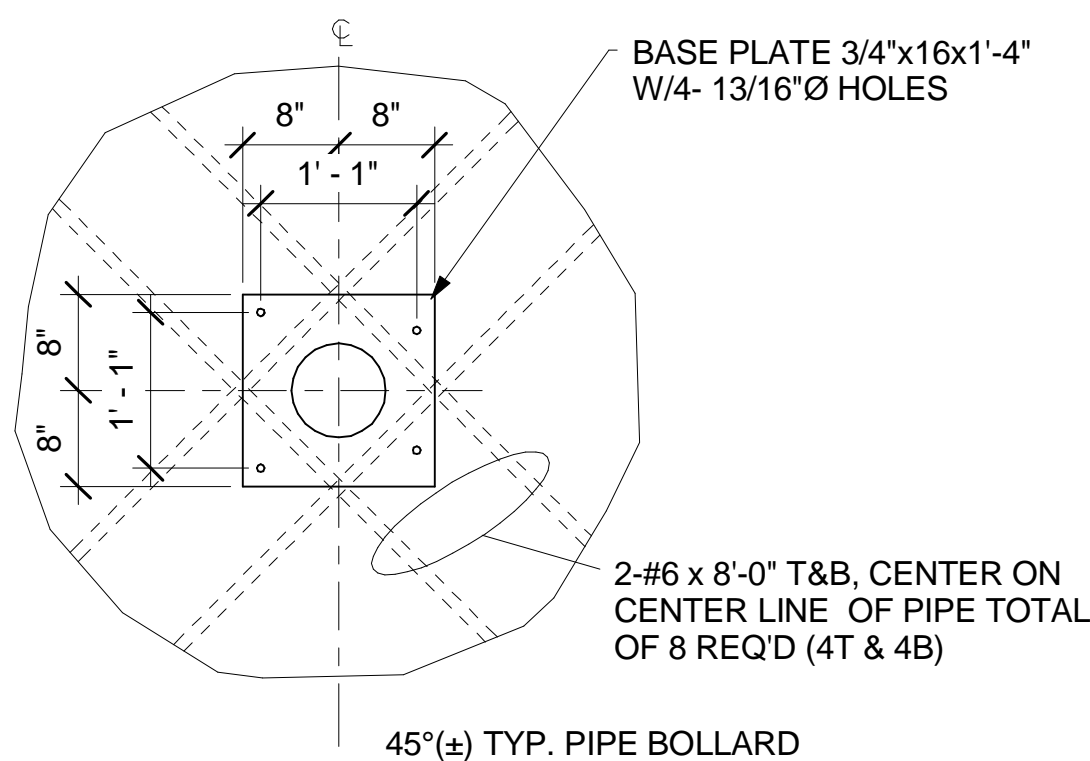
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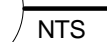
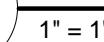
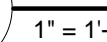
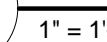
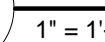
N.T.S.



N.T.S.



N.T.S.



Department of
Veterans Affairs

three inches = one foot

- one and one half inches = one foot

1 inch = one foot

6" 0 2

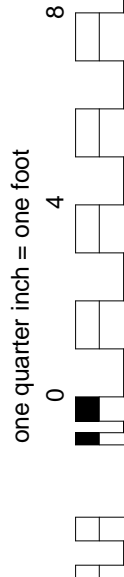


4



three eighths inch = one foot

0 4

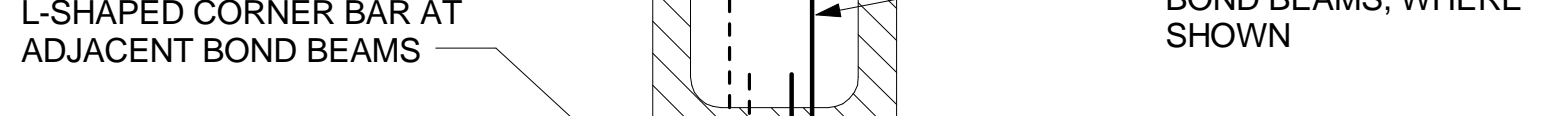


one eighth inch = one foot

0	4	8	16
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6 CONT. WALLS CMU WALL CORNER
N.T.S.



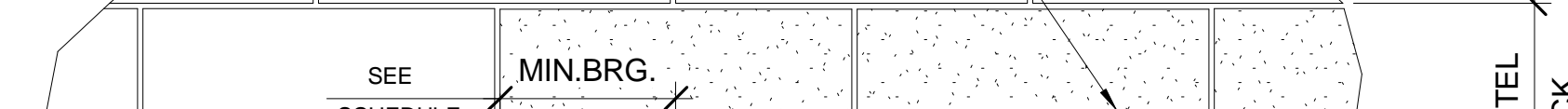
7 TYPICAL DETAIL CMU WALL INTERSECT
N.T.S.



8 SLAB EDGE DETAIL
3' = 1'-0"



2 IN CMU WALL
N.T.S.



3 LINTEL IN CMU WALL
N.T.S.

1. THIS DETAIL NEED NOT BE USED WHEN THE SUBJECT WALL IS PLACED BETWEEN INTEGRALLY BUILT INTERSECTING SIMILAR WALLS AND THE RESULTING HORIZONTAL SPAN DOES NOT EXCEED $36^{\circ}T$, WHERE T IS THE NOMINAL WALL THICKNESS
2. THE FOLLOWING INFORMATION SHALL BE USED WITH THIS DETAIL FOR INFORMATION PARTITIONS WITH THE MAXIMUM WIND PRESSURE OF 5 PSF AND NOT SUBJECT TO VEHICULAR (PASSENGER CAR)IMPACT.

- | MAXIMUM CONNECTION SPACING | | | | | | |
|----------------------------|--------------------|-------|-------|-------|-------|-------|
| NOMINAL WALL THICKNESS | WALL HEIGHT (FEET) | | | | | |
| | 9 | 12 | 15 | 18 | 21 | 24 |
| 4" | 4'-0" | 3'-6" | -- | -- | -- | -- |
| 6" | 5'-6" | 4'-6" | 4'-0" | 3'-6" | -- | -- |
| 8" | 7'-0" | 6'-6" | 5'-6" | 5'-0" | 4'-6" | 4'-0" |

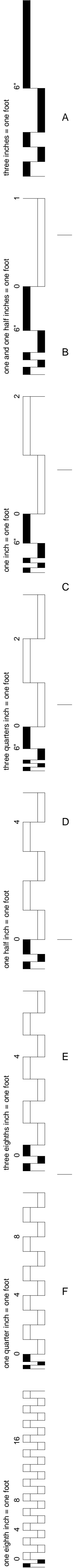
- | VEHICULAR IMPACT – WALL HEIGHT, MAX (FT) | | | | | | |
|--|------------|--------|--------|--------|--------|--------|
| NOMINAL WALL THICKNESS, T | CANTILEVER | | | BRACED | | |
| | 9 | 10 | 11 | 20 | 22 | 24 |
| 8" | #5@16" | -- | -- | #5@16" | -- | -- |
| 10" | #5@24" | #5@24" | -- | #5@24" | #5@24" | -- |
| 12" | #5@32" | #5@32" | #5@32" | #5@32" | #5@32" | #5@32" |

WIND LOAD 20 PSF – WALL HEIGHT, MAX (FT)		
NOMINAL WALL	CANTILEVER	BRACED

- | NOMINAL WALL THICKNESS, T | CANTILEVER | | | BRACED | | |
|---------------------------|------------|----------|----------|----------|----------|----------|
| | 9 | 10 | 11 | 20 | 22 | 24 |
| 8" | #4 @ 24" | -- | -- | #5 @ 32" | -- | -- |
| 10" | #4 @ 32" | #4 @ 24" | -- | #5 @ 40" | #5 @ 32" | -- |
| 12" | #4 @ 40" | #4 @ 32" | #4 @ 24" | #5 @ 32" | #5 @ 40" | #5 @ 32" |

**Office of
Construction
and Facilities
Management**

 **Department of
Veterans Affairs**



POST-TENSIONED FLOOR BEAM AND GIRDER SCHEDULE																				
Mark	DIMENSIONS			SKETCH OF CROSS SECTION	NO. OF 0.5" DIA. TENDONS	TENDON PROFILE (INCHES)			REINFORCEMENT									HORIZONTAL MILD STEEL BAR DIAGRAM		REMARKS
	WIDTH (IN.)		DEPTH (IN.)			A	B	C	TOP BARS			BOTTOM BARS			SIDE BARS EA. FACE U.N.O	STIRRUPS				
	B1	B2							TL	TM	TR	BL	BM	BR		SIZE	TYPE	SPACING EA. END, U.N.O.		
2-PB1-1	18	16	36		12	24	4	32	2-#10	2-#5	2-#10	2-#7	2-#9	2-#7		#4		12@6, BAL.@18		
2-PB1-2	18	16	36		12	32	8	32	-	2-#5	2-#10	-	2-#9	2-#7		#4		12@6, BAL.@18		
2-PB1-3	18	16	36		12	12	11	32	2-#10	2-#5	-	2-#7	2-#9	-		#4		12@6, BAL.@18		
2PB2-1	18	16	36		24	22	4	32	3-#10	2-#5	3-#10	2-#7	2-#9	2-#7		#4		12@6, BAL.@18		
2PB2-2	18	16	36		24	32	7	32	-	2-#5	3-#10	-	2-#9	2-#7		#4		12@6, BAL.@18		
2PB2-3	18	16	36		24	22	4	32	3-#10	2-#5	-	2-#7	2-#9	-		#4		12@6, BAL.@18		
2PB3-1	18	16	36		24	22	4	32	3-#10	2-#5	3-#10	2-#7	2-#9	2-#7		#4		12@6, BAL.@18		
2PB3-2	18	16	30		24	32	7	32	-	2-#5	3-#10	-	2-#9	2-#7		#4		12@6, BAL.@18		
2PB3-3	18	16	36		24	22	4	32	3-#10	2-#5	-	2-#7	2-#9	-		#4		12@6, BAL.@18		
2PB4-1	18	16	36		24	22	4	32	3-#10	2-#5	3-#10	2-#7	2-#9	2-#7		#4		12@6, BAL.@18		
2PB4-2	18	16	36		24	32	7	32	-	2-#5	3-#10	-	2-#9	2-#7		#4		12@6, BAL.@18		
2PB4-3	18	16	36		24	22	4	32	3-310	2-#5	-	2-#7	2-#9	-		#4		12@6, BAL.@18		
2PB5-1	18	16	36		24	22	4	32	3-#10	2-#5	3-#10	2-#7	2-#9	2-#7		#4		12@6, BAL.@18		
2PB5-2	18	16	36		24	32	7	32	-	2-#5	3-#10	-	2-#9	2-#7		#4		12@6, BAL.@18		
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2PB6-1	18	16	36		24	22	4	32	3-#10	2-#5	3-#10	2-#7	2-#9	2-#7		#4		12@6, BAL.@18		
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2PB8-1	18	16	36		22	22	4	32	3-#10	2-#5	3-#10	2-#7	2-#9	2-#7		#4		12@6, BAL.@18		
2PB8-2	18	16	36		22	32	7	32	-	2-#5	3-#10	-	2-#9	2-#7		#4		12@6, BAL.@18		
2PB8-3	18	16	36		22	22	4	32	3-#10	2-#5	-	2-#9	2-#9	-		#4		12@6, BAL.@18		
2PB9-1	16	16	55		10	25	11	45	2-#9	2-#9	2-#9	2-#9	2-#9	2-#9	3-#5	#4		12@6, BAL.@12		
2PB9-2	16	16	55		10	45	21	45	-	2-#9	2-#9	-	2-#9	2-#9	3-#5	#4		12@6, BAL.@12		
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2PG1	24	24	36		48	22	4	22	4-#11	4-#11	4-#11	4-#11	4-#11	4-#11		#5		12@6, BAL.@12		
2PG2	24	24	36		48	22	4	22	4-#11	4-#11	4-#11	4-#11	4-#11	4-#11		#5		12@6, BAL.@12		
2RB1	14	14	55																SEE DET. 12/SF-504	
2RB2	14	14	55																SEE DET. 12/SF-504	

- SHEET NOTES:
1.

REFER TO THE FOLLOWING TABLE FOR REFERENCE SHEETS:

ITEM

COLUMN DETAILS

COLUMN SCHEDULE

FLOOR ELEVATIONS

GENERAL NOTES

POST-TENSIONED SECTIONS AND DETAILS

TYPICAL DETAILS

SHEET NUMBER

SF-602

ARCHITECTURAL DWGS

SB-001, SB-002 & SF-001

SF-501 THRU SF-502

SF-503 THRU SF-505

2.

BEAM MARKS SHOWN IN PLAN HAVE BEEN PLACED AT RESPECTIVE BEAMS LEFT ENDS.

3.

ANCHORAGES FOR ADDITIONAL TENDONS (SO NOTED ON DRAWINGS) SHALL BE LOCATED AT THE QUARTER POINT OF THE ADJACENT SPAN AND AT THE CENTER OF GRAVITY OF THE BEAM SECTION, PROVIDE BACK-UP REINFORCEMENT AT ANCHORAGE

4.

TO ALLEVIATE CONGESTION AT INTERIOR BEAM AND COLUMN INTERSECTION, THE BEAM BOTTOM REINFORCEMENT MAY BE PLACED IN TWO LAYERS, TOP REINFORCEMENT MUST BE IN ONE LAYER UNLESS NOTED OTHERWISE. BEAM TOP LONGITUDINAL BARS MAY BE PLACED IN SLAB ON EITHER SIDE OF BEAM WEB WITHIN A DISTANCE OF 1.50 TIMES THE SLAB THICKNESS CLEAR, EITHER SIDE. HOWEVER A MINIMUM OF 2 BARS MUST BE PLACED WITHIN THE BEAM-COLUMN JOINT. EXTEND ALL TOP BARS INTO ADJOINING SLAB.

5.

FOR BEAM PENETRATIONS, SEE DETAIL 1 ON DRAWING SF-503. THE CONTRACTOR SHALL COORDINATE EXACT LOCATION AND SIZE OF OPENINGS WITH OTHER DISCIPLINES REQUIRING PENETRATIONS AS SHOWN ON THE RESPECTIVE SUB-CONTRACTOR'S SHOP DRAWINGS. CONSULT PRIME ARCHITECT IF THE SIZE OF THE REQUIRED OPENING EXCEEDS THE LIMITS IN THE ABOVE DETAILS. SPECIAL DESIGN MODIFICATIONS MAY BE REQUIRED.

6.

ALL P.T. TENDON AND MILD STEEL REBAR SHOP DRAWINGS MUST SHOW GRID DESIGNATION AND GRID DIMENSIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

7.

FOR OPEN STIRRUPS SEE THE SCHEDULE ABOVE, PROVIDE SAME SIZE CAP FOR THE FIRST 6 STIRRUPS @ EACH END ONLY.

8.

SEE DETAIL 8/SF-503 FOR TYPICAL BEAM AND DETAIL 6/SF-502 FOR BEAM REINFORCEMENT AND P.T. INFORMATION.
- No.

Description

Date

FINAL SUBMISSION

9/24/2013

Revisions:

Date

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ARCHITECT/ ENGINEERS

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216.522.1350

Drawing Title

POST-TENSIONING BEAM SCHEDULE

Approved: J.H.

Date

9/19/2013
10:50:04 AM

Checked

J.H.

Drawn

D.R.W.

Project Title

VA Erie Parking Structure

Location
Erie, PA

Project Number

11159.00

Building Number

Drawing Number

SF-601

Office of Construction and Facilities Management

Department of Veterans Affairs
- 1

2

3

4

5

6

7

8

9

1 TYP. INTERIOR BM./COL. JT. DETAIL
3/4" = 1'-0"

2 TYP. COLUMN BAR PLACEMENT DETAIL
3/4" = 1'-0"

3 LIGHT POLE BASE DETAIL

4 - COL BAR CONFIG
1" = 1'-0"

5 6 - COL BAR CONFIG TYPE 1
1" = 1'-0"

6 6-COL BAR CONFIG TYPE 2

7 TYPICAL COLUMN DOWEL DETAIL

PARKING STRUCTURE COLUMN SCHEDULE																					
LOCATION		A-1 THRU A-9 D-9, D-2, 1 E-2 THRU E-8					B-1, B-3, B-4, B-5 C-1, C-3, C-5					B-2, B-6 C-2, C-4, C-6					B-7, B-9 C-7, C-9				
		LEVEL					27 TOTAL														
		COL. SIZE (IN) CONC. STRENGTH PATTERN VERTICAL REINF. TIES					COL. SIZE (IN) CONC. STRENGTH PATTERN VERTICAL REINF. TIES					COL. SIZE (IN) CONC. STRENGTH PATTERN VERTICAL REINF. TIES					COL. SIZE (IN) CONC. STRENGTH PATTERN VERTICAL REINF. TIES				
TOP OF COLUMN 15'-4"																					
SECOND LEVEL 11'-4"																					
FIRST LEVEL 0'-0"		24x24	5000	DET. 5	6#14	24@6"	24x24	5000	DET. 4	4#14	4#@6"	24x24	5000	DET. 4	4#14	4#@6"	24x24	5000	DET. 6	6#14	4#@6"
T/FDN. EL. SEE PLAN																					
DOWEL DETAILS		DETAIL 1					DETAIL 1					DETAIL 1					DETAIL 1				
DOWEL		4#8					4#8					4#8					4#10				
NOTES:												PROVIDE REBAR TERMINATORS									

No.	Description	Date
	FINAL SUBMISSION	9/24/2013
Revisions:		Date

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Drawing Title

COLUMN SCHEDULE, DETAILS, AND NOTES

Approved: J.H.

Project Title VA Erie Parking Structure			Project Number 11159.00	
Location Erie, PA			Building Number	
Drawing Number			SF-602	
Date 9/19/2013 10:50:05 AM	Checked J.H.	Drawn D.R.W.		

**Office of
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and Facilities
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 **Department of
Veterans Affairs**

FINAL SUBMISSION

Scale: As indicated

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